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TWENTY-THIRD ANNUAL REPORT

RELATING TO THE REGISTRY AND RETURN OF

BIRTHS, MARRIAGES AND DEATHS

IN MICHIGAN

FOR THE YEAR 1889

BY THE

SECRETARY OF STATE

OF THE

STATE OF MICHIGAN

BY AUTHORITY

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STATE OF MICHIGAN.

DEPARTMENT OF STATE,
OFFICE OF THE SECRETARY,
June 16, 1891.

HON. EDWIN B. WINANS, *Governor of Michigan:*

SIR—In accordance with the requirements of the laws of this State, I have the honor to submit herewith the Twenty-third Annual Report of Births, Marriages and Deaths, as returned, for the year ending December 31, 1889.

The tables and exhibits contained in this volume are modeled after those in previous reports, and in the compilation and proving of the work much care has been taken to make them as perfect as possible. With every year the returns of the statistics to this office become more complete, thus making the work more accurate and valuable.

The census of the State, made in 1884, has been used as a basis for computing all rates and percentages. It was hoped that the United States census of Michigan for 1890 would be available, but the report could not be obtained in time, though that part of the work for which it was desired was held for some time. The estimates of population given in previous reports, since the year 1884, were found to be incorrect, as they were based upon the rate of increase in population between the years 1884 and 1880, and the same rate of increase has not prevailed since then as shown by the late census. As it is, the population for 1884 only is given.

It will be seen, notwithstanding the influenza epidemic, that the number of deaths returned for 1889 was less than for 1888, though it was more than for the ten years' average, as it should be, to correspond with the increase in population. The births and marriages, however, show an increase, which makes the excess of births over deaths larger than for the previous year. During the year 1889 there were in this State, according to the returns, 49,272 births, 18,300 marriages, and 20,315 deaths.

That the influence exerted by climate, water and other conditions of environment upon the health of the inhabitants may more plainly be seen, the statistics are given in divisions for different parts of the State, the sections having certain characteristics. These divisions will be found in Table 75.

The first part of this report gives a summary of the births, marriages and deaths, and the parts following treat of these subjects fully as to statistics, giving many different per cents, rates and comparisons, much attention being given to the deaths and the causes thereof.

Hoping that the work will prove of interest and value to sanitarians, officials and all interested in the subject, it is

Respectfully submitted,

David E. Soper

Secretary of State.

BIRTHS, MARRIAGES AND DEATHS

IN MICHIGAN

DURING THE YEAR 1889.

The facts considered in the following pages of this report are concerning the rates of births, marriages and deaths to the population, the sex, age, nativity, seasons of the year and conditions of weather, in different parts of the State. These facts are compiled from the official reports to the Department of State from the county clerks.

In this State the enumeration of births and deaths is made and reported to the county clerks by the supervisors and assessors of townships and cities, except in Detroit, where the enumeration is made by persons appointed by the common council. The facts concerning marriages are reported to the county clerks by the ministers of the gospel and justices of the peace, who are authorized to solemnize marriages in Michigan. With every year these reports are becoming more complete, accurate and valuable.

Exhibit A gives at a glance the leading facts of the subjects treated of in the succeeding pages. It will be seen that there were returned for the year 1889, 49,272 births, 18,300 marriages and 20,315 deaths, a total registration of 87,887, being 101 less than the number returned for 1888. While the marriages and births have increased about as usual, the deaths have fallen off, thus making the excess of births over deaths greater than ever before.

EXHIBIT A.—*Births, Marriages and Deaths, returned as having occurred in Michigan during each of the Years 1886 to 1889, and the Average for Ten Years, 1879–1888, as returned and corrected for omissions in the enumeration.*

		1886.	1887.	1888.	1889.	Average 10 years 1879–1888.
As returned.	Marriages [a]	17,179	17,294	17,294	18,300	16,129
	Births	41,095	46,226	48,952	49,272	41,389
	Deaths	18,187	19,482	21,764	20,315	17,721
	Excess of births over deaths	22,908	26,744	27,188	28,957	23,668
As corrected for omissions.	Births	60,484	58,493	60,120	65,224	54,888
	Deaths	25,210	27,251	26,043	27,461	25,151
	Excess of births over deaths	35,274	31,242	34,077	37,763	29,737

[a] Corrected for additional returns up to April 19, 1890.

The census of Michigan for 1884 gave a population of 1,853,658. Based upon these figures, the birth-rate, marriage-rate and death-rate, as represented by the returns of 1889, were as follows:

Birth-rate	26.72 to 1,000
Marriage-rate	9.87 to 1,000
Persons married	19.74 to 1,000
Death-rate	10.99 to 1,000

The relations which the births, marriages and deaths sustain to each other, as well as to the inhabitants of the State, may be seen in Exhibit B. The natural daily increase of population in 1889 was 79, five more than in the previous year. By the returns and the population of 1884, one child was born in 1889, to every 37 persons, one marriage was solemnized to every 101 persons, and one death occurred to every 91 persons.

EXHIBIT B.—*Statements concerning Births, Marriages and Deaths in Michigan during the years 1885–1889, inclusive.*

	1885.a	1886.a	1887.a	1888.a	1889.a
Inhabitants represented by returns of marriages to one marriage	b 111.25	107.30	107.19	107.12	101.29
In population represented by marriages, males to one marriage	55.53	56.72	54.34	56.21	53.34
In population represented by marriages, females to one marriage	52.77	51.17	50.53	50.50	48.08
Inhabitants represented by births to each child returned	43.85	44.38	39.94	37.74	37.42
Inhabitants, males, to each male child returned	44.54	45.54	41.37	38.02	37.73
Inhabitants, females, to each female child returned	43.11	44.11	38.56	37.43	37.10
Inhabitants represented by deaths to one death	120.38	111.42	94.71	94.51	90.91
Inhabitants, males, to one death of male	107.30	98.57	81.46	82.73	85.34
Inhabitants, females, to one death of female	133.86	126.34	108.71	97.37	94.55
Deaths, males, to 100 females	126.56	113.73	128.31	117.80	115.60
Births, males, to 100 females	108.54	108.25	106.31	108.00	106.73
Total population of State, males to 100 females	101.53	101.55	101.53	101.00	100.73
Births to one death	1.53	1.38	1.17	1.35	2.43
Births, males, to one death of male	1.40	1.24	1.17	1.11	2.38
Births, females, to one death of female	1.56	1.58	1.44	1.33	2.53
Children born of which the sex was unknown or not stated	65.00	68.00	71.00	55.00	45.00
Deaths of which the sex was unknown or not stated	52.00	60.00	42.00	15.00	34.00
Natural daily increase of population, as per births and deaths returned	86.00	85.00	73.00	74.00	79.00
Natural daily increase of population, where returns of births and deaths are corrected for omissions in the enumeration	97.00	97.00	86.00	86.00	100.72

a In constructing statements for this column the population of 1884 was used.
b Marriages corrected for additional returns up to April 25, 1890.

The following statistics, taken from the registration report of Massachusetts for 1889, show the rates of births, marriages and deaths in various states and countries.

Rates of Births, Marriages and Deaths in various States and Countries for the Years 1887 and 1888.

States and countries.	1887.				1888.			
	Birth-rate.	Death-rate.	Excess of birth-rate over death-rate.	Marriage-rate.	Birth-rate.	Death-rate.	Excess of birth-rate over death-rate.	Marriage-rate.
Massachusetts	26.4	20.3	6.2	19.4	29.9 a 26.2	19.9 a 19.2	6.0 a 7.0	18.6 a 18.7
New Hampshire	19.9	18.7	1.2	20.1	18.6	19.7	1.1	19.5
Rhode Island	24.2	19.9	4.3	18.0	24.3	20 4	3.9	18.7
Austria	38.2	28.9	9.3	15.6	37.9	29.2	8.7	15.8
Belgium	29.4	19.3	10.1	14.2	29.1	20.1	9.0	14.7
Denmark	32.0	18.3	13.7	14.0	31.7	19.7	12.0	14.2
England and Wales	34.4	18.8	12.6	14.2	30.6	17.8	12.8	14.2
France	23.5	22.0	1.5	14.6	23.1	21.8	1.3	14.4
German Empire	36.9	24.2	12.7	15.6	36.7	23.8	12.9	15.7
Hungary	43.9	33.5	10.4	17.9	.....	.....	.....	.....
Ireland	23.2	18.3	4.9	8.7	22.9	18.0	4.9	8.4
Italy	38.3	27.7	10.6	15.5	36.6	26.8	9.8	15.6
Netherlands	33.7	19.7	14.0	14.0	33.7	20.4	13.3	13.8
Norway	30.8	16.0	14.8	12.5	30.8	16.9	13.9	12.8
Prussia	37.8	23.9	13.9	16.0	37.7	23.0	14.7	16.1
Scotland	31.2	18.7	12.5	12.5	30.5	17.6	12.9	12.5
Sweden	29.7	16.1	13.6	12.5	.....	.....	.....	.....
Switzerland	27.9	20.2	7.7	14.2	27.7	19.9	7.8	14.1

a 1889.

Exhibit C gives the number of marriages, births and deaths for the last 21 years, from 1869 to 1889, inclusive, as they were returned to the Department of State. The total of each for the 21 years, and the average year can be seen at the bottom of the table.

EXHIBIT C.—*The Number of Births, Marriages, Deaths and Excess of Births over Deaths, as returned for each of the Years 1869–1889.*

Years.	Births.	Marriages.	Deaths.	Excess of births over deaths.
1869	27,093	8,459	9,145	17,948
1870	26,663	9,160	10,766	15,897
1871	25,992	10,181	9,728	16,264
1872	27,993	9,882	13,371	14,622
1873	34,608	10,574	14,258	20,350
1874	31,151	11,041	12,500	18,651
1875	31,958	11,055	11,990	19,968
1876	34,235	10,858	12,576	21,659
1877	33,395	11,009	12,919	20,476
1878	35,162	12,221	12,766	22,396
1879	34,122	13,225	14,407	19,715
1880	35,323	14,149	16,102	19,221
1881	34,749	14,847	19,238	15,511
1882	37,026	16,178	16,425	20,601
1883	40,809	16,420	16,906	23,903
1884	40,408	15,002	18,056	22,352
1885	42,119	15,016	16,646	25,473
1886	41,095	16,631	18,187	22,908
1887	46,226	17,050	19,482	26,744
1888	48,952	17,233	21,764	27,188
1889	49,272	18,300	20,315	28,957
Total	458,351	278,491	317,547	440,804
Average	36,112	13,261	15,121	20,991

The average number of births, marriages and deaths for certain specified periods of time within the year 1889 will be found in Exhibit D. When the returns of births and deaths are corrected for omissions, as in the lower part of the exhibit, the numbers are considerably increased.

EXHIBIT D.—*The number of Marriages, Births, Deaths, and Excess of Births over Deaths in Michigan during the Year 1889, the Average Number and Excess for specified periods of time within the year as returned, and the same for Births and Deaths as corrected for omissions in the enumeration.*

	Periods of time.—1889.	Marriages, 1889.	Births, 1889.	Deaths, 1889.	Excess of births over deaths.
As Returned.	Year 1889 a	18,300	49,272	20,315	28,957
	Quarter	4,575	12,318	5,079	7,239
	Month	1,525	4,106	1,693	2,413
	Week	352	947	391	556
	Day	50	135	56	79
Births and Deaths as Corrected.	Year 1889 b		65,242	27,461	37,781
	Quarter		16,310	6,865	9,445
	Month		5,436	2,288	3,148
	Week		1,255	528	727
	Day		179	75	104

a Unknown month included.
b Corrected as if enumerated in months of occurrence.

In Exhibit E the natural increase of population, that is, the excess of births over deaths, is shown by months for the years 1884 and 1889, inclusive. The greatest excess for 1889 occurred in May, when there were 2,784 more births than deaths. The highest average month for the ten years was also in May, and the excess 2,115.

TABLE II.—By Months, the Births, Deaths and Excess of Births over Deaths, according to the returns, in Michigan, during each of the Years 1884-1889, inclusive.

		Total.[a]	Months.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1884	Births	40,359	2,748	2,878	3,498	3,430	3,480	3,407	3,482	3,673	3,559	3,445	3,215	3,544
	Deaths	18,000	1,087	1,181	1,421	1,382	1,456	1,266	1,520	1,917	1,877	1,752	1,526	1,615
	Excess of Births	22,359	1,661	1,697	2,077	2,048	2,024	2,141	1,962	1,756	1,682	1,693	1,689	1,929
1885	Births	42,083	2,707	2,987	3,533	3,618	3,730	3,346	3,567	3,924	3,995	3,624	3,363	3,689
	Deaths	16,590	1,131	1,267	1,421	1,474	1,286	1,185	1,363	1,486	1,559	1,492	1,362	1,564
	Excess of Births	25,493	1,576	1,720	2,112	2,144	2,444	2,161	2,204	2,438	2,436	2,132	2,001	2,125
1886	Births	41,044	2,617	2,858	3,456	3,640	3,498	3,352	3,598	3,781	3,707	3,540	3,270	3,727
	Deaths	18,127	1,065	1,093	1,462	1,396	1,376	1,281	1,461	1,887	1,889	1,761	1,615	1,841
	Excess of Births	22,917	1,552	1,765	1,994	2,244	2,122	2,071	2,137	1,894	1,818	1,779	1,655	1,886
1887	Births	46,166	3,132	3,150	3,987	3,896	3,960	3,666	4,011	4,266	4,331	3,944	3,765	4,058
	Deaths	19,416	1,249	1,274	1,535	1,599	1,472	1,405	1,915	2,055	1,916	1,699	1,554	1,743
	Excess of Births	26,750	1,883	1,876	2,452	2,297	2,488	2,261	2,096	2,211	2,415	2,245	2,211	2,315
1888	Births	48,907	3,531	3,516	4,099	3,953	4,214	4,133	4,223	4,514	4,415	4,305	3,811	4,193
	Deaths	21,698	1,416	1,585	1,865	1,909	1,858	1,627	1,789	2,169	1,978	1,848	1,642	2,012
	Excess of Births	27,209	2,115	1,931	2,234	2,044	2,356	2,506	2,434	2,345	2,437	2,457	2,169	2,181
1889	Births	49,272	3,340	3,104	4,001	4,057	4,238	4,050	4,252	4,526	4,382	4,292	4,331	4,646
	Deaths	20,315	1,409	1,266	1,676	1,585	1,454	1,389	1,677	2,214	2,025	1,894	1,712	1,951
	Excess of Births	28,957	1,931	1,838	2,325	2,472	2,784	2,661	2,575	2,312	2,357	2,398	2,619	2,695
Monthly averages of excess for 1880 to 1889, inclusive		23,301	1,664	1,666	1,999	1,987	2,115	2,052	2,017	1,971	1,963	1,969	1,892	2,099

[a] Unknown month excluded.

EXHIBIT F. *Showing, by Sex, the Population in 1884, the Number of Marriages, Births and Deaths, and the Excess of Births over Deaths, in Michigan, during the year 1889.*

State and counties.	Population, 1884.				Marriages, 1889.	Births, 1889.				Deaths, 1889.				Excess of births over deaths.			
	Total.	Sex.				Total.	Sex.			Total.	Sex.			Total.	Sex.		
		Males.	Females	Unknown.			Males.	Females	Unknown.		Males.	Females	Unknown.		Males.	Females	Unknown.
State	1,853,658	974,434	879,028	206	18,360	49,273	25,642	23,582	48	20,315	10,984	9,297	34	28,957	14,658	14,285	14
Alcona	4,028	2,428	1,600	.....	27	67	34	33	.....	19	9	10	.....	48	25	9	.....
Alger	a	a	a	.....	6	19	7	12	.....	5	2	3	.....	14	5	9	.....
Allegan	38,666	20,052	18,614	.....	318	773	385	388	.....	359	201	158	.....	414	184	230	.....
Alpena	12,683	6,990	5,693	.....	149	525	278	247	.....	122	67	55	.....	403	211	192	.....
Antrim	8,761	4,736	4,025	.....	75	214	119	95	.....	75	41	34	.....	139	78	61	.....
Arenac	4,027	2,319	1,708	.....	40	141	72	69	.....	47	32	15	.....	94	40	54	.....
Baraga	3,039	1,819	1,220	.....	27	105	63	42	.....	35	19	16	.....	70	44	26	.....
Barry	24,102	12,507	11,595	.....	225	464	219	245	.....	177	86	91	.....	287	133	154	.....
Bay	51,221	28,215	23,006	.....	493	1,659	846	813	.....	493	251	242	.....	1,166	595	571	.....
Benzie	4,389	2,349	2,040	.....	44	103	49	54	.....	36	18	18	.....	67	31	36	.....
Berrien	37,776	19,225	18,551	.....	337	648	319	328	1	283	148	135	.....	365	171	193	.....
Branch	27,661	14,042	13,619	.....	269	448	232	216	.....	272	141	131	.....	176	91	85	.....
Calhoun	41,585	21,297	20,285	3	392	607	307	300	.....	373	188	185	.....	234	119	115	.....
Cass	21,202	10,886	10,316	.....	201	310	167	143	.....	175	84	91	.....	135	83	52	.....
Charlevoix	9,275	5,030	4,245	.....	79	147	70	77	.....	40	16	24	.....	107	54	53	.....
Cheboygan	9,946	5,503	4,443	.....	95	333	163	170	.....	107	57	50	.....	226	106	120	.....
Chippewa	8,422	4,746	3,676	.....	106	204	98	106	.....	75	41	34	.....	129	57	72	.....
Clare	5,549	3,251	2,298	.....	85	131	63	68	.....	24	17	7	.....	107	46	61	.....

a Organized since census was taken.

EXHIBIT F.—*Continued.*

Counties.	Population, 1884.				Marriages, 1889.	Births, 1889.				Deaths, 1889.				Excess of births over deaths.			
	Total.	Sex.				Total.	Sex.			Total.	Sex.			Total.	Sex.		
		Males.	Females.	Unknown.			Males.	Females.	Unknown.		Males.	Females.	Unknown.		Males.	Females.	Unknown.
Clinton	27,135	14,034	13,101	.....	215	426	432	193	1	236	134	102	.....	190	298	91	.....
Crawford	2,389	1,381	1,008	.....	28	54	28	26	.....	22	10	12	.....	32	18	14	.....
Delta	9,992	5,876	4,116	.....	163	489	267	219	3	155	104	49	2	334	163	170	1
Eaton	31,802	16,210	15,592	.....	293	482	239	243	.....	271	131	140	.....	211	108	103	.....
Emmet	7,944	4,095	3,849	.....	88	157	89	66	1	105	58	46	1	52	31	20	.....
Genesee	38,776	19,782	18,994	.....	389	548	295	253	.....	327	167	160	.....	221	128	93	.....
Gladwin	1,539	899	640	.....	39	35	12	23	.....	13	3	10	.....	22	9	13	.....
Gogebic	a	a	a	.....	107	303	169	134	.....	112	78	34	.....	191	91	100	.....
Grand Traverse	12,092	6,522	5,570	.....	140	195	114	81	.....	113	60	53	.....	82	54	28	.....
Gratiot	25,049	13,204	11,845	.....	241	500	264	236	.....	188	96	92	.....	312	168	144	.....
Hillsdale	31,686	15,911	15,775	.....	286	348	188	160	.....	218	113	105	.....	130	75	55	.....
Houghton	26,146	14,168	11,978	.....	357	1,324	658	666	.....	395	234	160	1	929	424	506	.....
Huron	24,321	12,934	11,565	2	237	805	404	401	.....	234	130	104	.....	571	274	297	.....
Ingham	34,939	17,917	17,022	.....	347	561	284	274	3	331	170	159	2	230	114	115	1
Ionia	32,559	17,057	15,502	.....	294	537	279	258	.....	258	132	126	.....	279	147	132	.....
Iosco	10,602	6,060	4,542	.....	135	350	164	186	.....	131	73	58	.....	219	91	128	.....
Iron	a	a	a	.....	40	117	59	58	.....	18	13	5	.....	99	46	53	.....
Isabella	16,011	8,597	7,414	.....	158	429	203	225	1	143	74	69	.....	286	129	156	1
Jackson	45,232	23,385	21,847	.....	380	699	358	341	.....	439	224	215	.....	260	134	126	.....
Kalamazoo	35,281	17,875	17,406	.....	402	679	344	335	.....	431	234	197	.....	248	110	138	.....
Kalkaska	4,498	2,470	2,028	.....	53	101	41	60	.....	50	33	17	.....	51	8	43	.....

Kent	48,600	43,467	41,183	.....	1,141	2,348	1,174	1,073	1	1,128	627	499	2	1,120	547	574	-1
Keweenaw	4,667	3,551	2,116	.....	15	131	74	57	.....	48	37	11	.....	83	37	46	.....
Lake	7,539	4,528	3,011	.....	55	88	44	44	.....	39	25	14	.....	49	19	30	.....
Lapeer	30,057	15,568	14,489	.....	270	528	270	258	.....	229	122	107	.....	299	148	151	.....
Leelanaw	7,128	3,842	3,286	.....	64	203	116	87	.....	93	54	39	.....	110	82	48	.....
Lenawee	49,584	24,916	24,668	.....	400	666	322	343	1	432	223	209	.....	234	99	134	1
Livingston	21,568	11,254	10,314	.....	182	319	166	153	.....	203	110	93	.....	116	56	60	.....
Luce	a	a	a	.....	42	78	42	36	.....	11	4	7	.....	67	38	29	.....
Mackinac	5,171	2,948	2,223	.....	56	111	65	46	.....	54	29	25	.....	57	36	21	.....
Macomb	31,293	15,978	15,315	.....	242	690	370	320	.....	367	177	190	.....	322	193	130	.....
Manistee	19,875	10,879	8,996	.....	212	685	378	307	.....	212	122	90	.....	473	256	217	.....
Manitou	1,198	547	456	195	1	26	13	13	.....	8	4	4	.....	18	9	9	.....
Marquette	31,397	17,580	13,817	.....	375	1,198	609	589	.....	429	270	159	.....	769	339	430	.....
Mason	13,221	7,232	5,989	.....	163	412	214	198	.....	169	92	77	.....	243	122	121	.....
Mecosta	20,597	11,283	9,314	.....	223	409	207	201	1	145	86	59	.....	264	121	142	1
Menominee	19,120	11,488	7,632	.....	252	1,012	521	478	13	350	197	141	12	662	324	337	1
Midland	8,776	4,728	4,048	.....	99	229	115	114	.....	70	32	38	.....	159	83	76	.....
Missaukee	3,386	2,036	1,350	.....	47	111	54	57	.....	29	14	15	.....	82	40	42	.....
Monroe	33,353	17,186	16,167	.....	307	613	329	284	.....	272	142	130	.....	341	187	154	.....
Montcalm	35,356	18,774	16,581	1	312	615	310	305	.....	265	129	136	.....	350	181	169	.....
Montmorency	845	494	351	.....	14	42	22	20	.....	25	12	13	.....	17	10	7	.....
Muskegon	37,554	20,522	17,029	3	362	1,016	539	476	1	444	254	190	.....	572	285	286	1
Newaygo	18,996	10,684	8,312	.....	162	336	171	165	.....	116	67	49	.....	220	104	116	.....
Oakland	41,100	20,821	20,279	.....	319	511	267	243	1	397	223	173	1	114	44	70	.....
Oceana	14,519	7,859	6,660	.....	118	295	159	136	.....	113	60	53	.....	182	99	83	.....
Ogemaw	3,637	2,041	1,596	.....	49	105	51	54	.....	25	13	12	.....	80	38	42	.....
Ontonagon	4,836	3,329	1,507	.....	17	50	24	26	.....	34	21	12	1	16	3	14	-1

a Organized since census was taken.

EXHIBIT F.—*Continued.*

Counties.	Population, 1884.				Marriages, 1889.	Births, 1889.				Deaths, 1889.				Excess of births over deaths.			
	Total.	Sex.				Total.	Sex.			Total.	Sex.			Total.	Sex.		
		Males.	Females	Unknown.			Males.	Females	Unknown.		Males.	Females	Unknown.		Males.	Females	Unknown.
Osceola	14,001	7,533	6,468	.....	141	299	148	151	.....	93	49	44	.....	206	99	107	.....
Oscoda	1,374	798	576	.....	19	33	15	18	.....	18	13	5	.....	15	2	13	.....
Otsego	3,906	2,223	1,683	.....	39	50	26	24	.....	19	8	11	.....	31	18	13	.....
Ottawa	36,225	18,970	17,255	.....	277	849	460	388	1	375	212	160	3	474	248	228	-2
Presque Isle	4,064	2,168	1,896	.....	26	136	71	65	.....	46	29	17	.....	90	42	48	.....
Roscommon	2,588	1,813	775	.....	18	30	18	12	.....	7	3	4	.....	23	15	8	.....
Saginaw	74,795	41,588	33,207	.....	701	2,281	1,209	1,071	1	998	560	438	.....	1,283	649	633	1
Sanilac	29,583	15,578	14,005	.....	236	777	417	360	.....	264	136	128	.....	513	281	232	.....
Schoolcraft	3,846	2,568	1,278	.....	44	74	39	35	.....	36	23	13	.....	38	16	22	.....
Shiawassee	28,078	14,731	13,347	.....	289	431	224	207	.....	168	87	81	.....	263	137	126	.....
St. Clair	46,783	24,058	22,733	2	465	1,102	579	523	.....	450	235	215	.....	652	344	308	.....
St. Joseph	26,277	13,295	12,982	.....	236	341	181	160	.....	239	123	115	1	102	58	45	-1
Tuscola	30,726	16,126	14,600	.....	292	633	329	303	1	281	159	122	.....	352	170	181	1
Van Buren	30,341	15,377	14,964	.....	284	555	283	271	1	281	135	146	.....	264	148	125	1
Washtenaw	41,694	21,067	20,627	.....	286	641	331	310	.....	344	185	159	.....	297	146	151	.....
Wayne	188,966	94,492	94,474	.....	1,922	12,023	6,371	5,636	16	4,005	2,153	1,844	8	8,018	4,218	3,792	8
Wexford	10,518	5,732	4,786	.....	116	254	133	121	.....	77	39	38	.....	177	94	83	.....

BIRTHS, 1889.

There were 49,272 births returned for the year 1889, more than returned for any previous year, while the average for the last ten years is 41,389.

The system of correction used in this report to supply the omissions in the enumeration of births is the same as the one used in the United States census reports, and by using this method the number of births returned for 1889 should be increased by about 38 per cent in order to equal the number which probably occurred. Thus about 75 per cent of the births in 1889 were returned, and the average for ten years only about 73.

Years.	Per cent of births returned.	Per cent of births added as correction for omissions.
1880	69.73	43.42
1881	69.76	43.35
1882	74.31	34.57
1883	72.57	37.79
1884	73.24	36.54
1885	72.57	37.80
1886	67.92	47.24
1887	79.01	26.57
1888	81.41	22.84
1889	75.46	38.17
Average for 10 years	73.60	36.83

The census of Michigan made in 1884, the latest available for this report, gave the State a population of 1,853,658, and all percentages have been figured upon this number. Subtracting from this total 9,717, the number of inhabitants from whom no returns of births for 1889 were received, gives 1,843,941 as the number of inhabitants in 1884 represented by returns of births in 1889. The following table shows that the birth-rate was 2.67 for every 100 inhabitants, and by the corrected returns 3.54 to every 100.

Sex.	Inhabitants in 1884 represented by births in 1889.	Births as returned.	Births corrected for omissions in enumerating.	Per cent of births to inhabitants.	
				Births as returned.	Births corrected for omissions.
Total	1,843,941	49,272	65,242	2.67	3.54

The birth-rate in foreign countries as given below is taken from the 1889 Registration Report of Massachusetts.

Eastern Europe	41.4 to 1,000
Central Europe	36.7 to 1,000
Southern Europe	36.6 to 1,000
Northwestern Europe	30.5 to 1,000

The countries having the highest and lowest birth-rates are as follows:

	Highest.		Lowest.
1. Russia, 1867-78	49.4	5. Sweden, 1865-82	30.2
2. Croatia, 1874-80	45.3	4. Switzerland, 1870-83	30.2
3. Servia, 1579-83	43.6	3. Greece, 1865-82	28.4
4. Hungary, 1865-83	43.0	2. Ireland, 1865-83	26.4
5. Wurtemburg, 1865-83	42.6	1. France, 1870-82	25.4
Average	44.8	Average	29.0

During the year 1889 the birth-rate for Michigan averaged as in the table given below.

Periods of time.	Births as returned.	Corrected for omissions.	Corrected with 36.83 per cent.
Per quarter	12,318	16,310	16,855
Per month	4,106	5,436	5,618
Per week	947	1,255	1,296
Per day	135	179	185

Table 1 gives the birth-rate for the several quarters of the year. The last quarter for 1889 showing the highest number of births for any quarter of that year, and also for any quarter of the years included in the table. Heretofore the third quarter has usually contained the highest number. In the corrected returns the third quarter retains the leading place.

TABLE I.—*Births by Quarters of the year for the years 1886–1889, and the Average for Ten Years, 1879–1888.*

Totals and months with which quarters end.	1886.		1887.		1888.		1889.		Average for 10 1879–1888.	
	Number.	Per cent of total.	Number.	Per cent of total.	Number.	Per cent of total.	Number.	Per cent of total.	Number.	Per cent of total.
Totals	41,095	100.00	46,226	100.00	48,952	100.00	49,272	100.00	41,389	100.00
As returned. March	8,931	21.73	10,269	22.21	11,146	22.77	10,445	21.20	9,265	22.38
As returned. June	10,490	25.53	11,522	24.93	12,300	25.12	12,345	25.05	10,335	24.97
As returned. September	11,086	26.98	12,608	27.27	13,152	26.87	13,160	26.71	11,128	26.89
As returned. December	10,537	25.64	11,767	25.46	12,309	25.15	13,269	26.93	10,633	25.79
As returned. Unknown	51	.12	60	.13	45	.09	53	.11	28	.07
Average a	10,274	25.00	11,557	25.00	12,238	25.00	12,318	25.00	10,347	25.00
Totals	60,484	100.00	58,498	100.00	60,120	100.00	65,224	100.00	54,888	100.00
As corrected for omissions. March	15,050	24.88	14,222	24.31	14,824	24.66	15,408	23.62	13,569	24.72
As corrected for omissions. June	16,288	26.93	15,096	25.81	15,553	25.87	17,058	26.16	14,272	26.00
As corrected for omissions. September	15,664	25.90	15,528	26.55	15,759	26.21	16,914	25.93	14,378	26.19
As corrected for omissions. December	13,431	22.21	13,587	23.23	13,939	23.19	15,791	24.21	12,627	23.01
As corrected for omissions. Unknown	51	.08	60	.10	45	.07	53	.08	42	.08
Average a	15,121	25.00	14,623	25.00	15,030	25.00	16,306	25.00	13,722	25.00

a The number in unknown quarter of year included.

The original return of births for each month is given in table 2. The highest being in December and the lowest in February. In the average for ten years August is the highest and January the lowest. As explained in previous reports, there is a better registration of the returns for the later than for the earlier months of the year, which accounts for the difference.

TABLE 2.—*Births during the years 1887–1889, according to the Returns, the Average for Ten Years, 1879–1888, showing number and Percentage, by months in order of greatest first.*

Order.	1887.			1888.			1889.			Average for 10 years, 1879–1888.		
	Months.	Number.	Per ct. of total.	Months.	Number.	Per ct. of total.	Months.	Number.	Per ct. of total.	Months.	Number.	Per ct. of total.
	Total..	46,226	100.00	Total...	48,952	100.00	Total ..	49,272	100.00	Total...	41,389	100.00
1	Sept. ..	4,331	9.37	Aug. ...	4,514	9.22	Dec. ...	4,646	9.43	Aug. ...	3,799	9.18
2	Aug....	4,266	9.23	Sept....	4,415	9.02	Aug....	4,526	9.19	Sept. ..	3,786	9.15
3	Dec. ...	4,058	8.78	Oct. ...	4,305	8.79	Sept....	4,382	8.80	Dec....	3,622	8.75
4	July ...	4,011	8.68	July ...	4,223	8.63	Nov....	4,331	8.79	Oct.. ..	3,567	8.62
5	Mar....	3,987	8.62	May ...	4,214	8.61	Oct. ...	4,292	8.71	July ...	3,543	8.56
6	May ...	3,960	8.57	Dec....	4,193	8.57	July ...	4,252	8.63	May ...	3,521	8.51
7	Oct. ...	3,944	8.53	June ..	4,133	8.44	May ...	4,238	8.60	April ..	3,486	8.42
8	April ..	3,896	8.43	Mar....	4,099	8.37	April ..	4,057	8.23	Mar. ...	3,457	8.35
9	Nov....	3,765	8.14	Apr. ...	3,953	8.08	June . .	4,050	8.22	Nov....	3,444	8.32
10	June...	3,666	7.93	Nov....	3,811	7.79	Mar....	4,001	8.22	June _	3,328	8.04
11	Feb. ...	3,150	6.81	Jan. ...	3,531	7.21	Jan. ...	3,340	6.78	Feb....	2,992	7.23
12	Jan. ...	3,132	6.78	Feb....	3,516	7.18	Feb....	3,104	6.29	Jan. ...	2,816	6.80
	Unk. ..	60	.13	Unk. ..	45	.09	Unk. ..	53	.11	Unk. ..	28	.07
	Av. a ..	3,852	8.33	Av. a...	4,079	8.33	Av. a...	4,106	8.33	Av. a...	3,449	8.33

a Including births in unknown month.

Table 3 contains the same set of returns as Table 2, but with the corrections for omissions added, which changes the order of the months somewhat.

TABLE 3.—*Births during the years 1887-1889, and the Average for Ten Years, 1879-1888, as corrected for Omissions in the enumeration, exhibiting the number and Percentage, by Months, in order of greatest first.*

Order.	1887.			1888.			1889.			Average for 10 years, 1879-1888.		
	Months.	Number.	Per ct. of total.	Months.	Number.	Per ct. of total.	Months.	Number.	Per ct. of total.	Months.	Number.	Per ct. of total.
	Total	58,493	100.00	Total	60,120	100.00	Total	65,224	100.00	Total	54,888	100.00
1	Mar.	5,428	9.28	Aug.	5,410	9.00	May	5,856	8.98	Mar.	5,010	9.13
2	Aug.	5,257	8.99	Mar.	5,366	8.93	Aug.	5,822	8.93	Aug.	4,932	8.99
3	Sept.	5,225	8.93	May	5,330	8.87	Mar.	5,783	8.87	April	4,903	8.93
4	Apr.	5,203	8.89	Sept.	5,194	8.64	April	5,735	8.79	May	4,894	8.91
5	May	5,186	8.87	July	5,155	8.57	July	5,605	8.59	Sept.	4,737	8.63
6	July	5,046	8.63	June	5,136	8.54	Sept.	5,487	8.41	July	4,709	8.58
7	June	4,707	8.05	Apr.	5,087	8.46	June	5,467	8.38	June	4,475	8.15
8	Oct.	4,657	7.96	Oct.	4,969	8.27	Dec.	5,385	8.26	Oct.	4,407	8.03
9	Dec.	4,582	7.83	Jan.	4,774	7.95	Oct.	5,248	8.04	Feb.	4,301	7.84
10	Jan.	4,425	7.57	Feb.	4,680	7.78	Nov.	5,158	7.91	Jan.	4,258	7.76
11	Feb.	4,369	7.47	Dec.	4,655	7.74	Jan.	5,040	7.73	Dec.	4,244	7.73
12	Nov.	4,348	7.43	Nov.	4,315	7.18	Feb.	4,585	7.03	Nov.	3,976	7.24
	Unk.	60	.10	Unk.	45	.07	Unk.	53	.08	Unk.	42	.08
	Av. a	4,874	8.33	Av. a	5,010	8.33	Av. a	5,431	8.33	Av. a	4,574	8.33

a Including births in unknown month.

PROPORTION OF THE SEXES.

Table 4 gives the number of births for each month from every county in the State. As usual, the males outnumber the females, the ratio being about 109 males to every 100 females.

The number of births in which the sex was not reported is 53, while for 1888 only 25 were reported as unknown.

TABLE 4.—*Exhibiting, by Counties and by Sex, the Number of Births Returned for the Year, and in each month of the year ending December 31, 1889. (Still-births included.)*

State and counties.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
State	Totals	49,272	3340	3104	4001	4057	4238	4050	4252	4526	4382	4292	4331	4646	53
	Males	25,642	1756	1607	2128	2081	2181	2096	2256	2370	2275	2247	2252	2368	25
	Females	23,582	1582	1495	1867	1974	2056	1950	1991	2152	2101	2041	2075	2275	23
	Unknown	48	2	2	6	2	1	4	5	4	6	4	4	3	5
Alcona	Totals	67	3	5	8	5	2	6	10	8	6	4	6	4	----
	Males	34	2	1	5	3	----	4	7	3	3	2	2	2	----
	Females	33	1	4	3	2	2	2	3	5	3	2	4	2	----
Alger	Totals	19	2	1	----	2	----	----	1	1	6	----	4	2	----
	Males	7	----	1	----	1	----	----	----	----	3	----	1	1	----
	Females	12	2	----	----	1	----	----	1	1	3	----	3	1	----
Allegan	Totals	773	39	48	83	60	71	60	71	64	63	61	72	80	1
	Males	385	18	25	43	27	28	32	41	39	27	28	34	42	1
	Females	388	21	23	40	33	43	28	30	25	36	33	38	38	----
Alpena	Totals	525	29	34	39	59	52	56	49	46	49	36	33	40	3
	Males	278	16	16	24	32	32	29	22	27	26	19	13	21	1
	Females	247	13	18	15	27	20	27	27	19	23	17	20	19	2
Antrim	Totals	214	12	16	17	13	17	22	20	22	14	28	17	16	----
	Males	119	5	10	8	9	7	11	12	9	6	20	12	10	----
	Females	95	7	6	9	4	10	11	8	13	8	8	5	6	----
Arenac	Totals	141	10	9	21	12	12	11	8	11	7	17	13	10	----
	Males	72	4	6	8	6	7	4	5	7	3	9	8	5	----
	Females	69	6	3	13	6	5	7	3	4	4	8	5	5	----
Baraga	Totals	105	8	6	8	9	5	12	10	18	7	4	10	7	1
	Males	63	4	5	5	5	3	7	7	8	4	4	5	5	1
	Females	42	4	1	3	4	2	5	3	10	3	----	5	2	----
Barry	Totals	464	34	28	37	34	40	26	45	48	39	45	40	48	----
	Males	219	12	11	16	16	17	9	20	26	22	23	23	24	----
	Females	245	22	17	21	18	23	17	25	22	17	22	17	24	----
Bay	Totals	1,659	96	102	112	155	141	134	127	182	129	153	146	182	----
	Males	846	60	52	63	80	74	73	56	96	65	72	67	88	----
	Females	813	36	50	49	75	67	61	71	86	64	81	79	94	----

TABLE 4.—CONTINUED.—*Births by counties, by months and by sex.*

Counties.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Benzie	Totals	103	4	3	5	11	16	12	8	7	14	7	10	5	1
	Males	49	4	1	2	7	10	6	3	2	5	----	6	3	----
	Females	54	----	2	3	4	6	6	5	5	9	7	4	2	1
Berrien	Totals	648	38	43	46	40	61	62	48	62	70	49	67	62	----
	Males	319	20	17	25	20	26	29	20	37	31	24	33	37	----
	Females	328	18	26	20	20	35	33	28	25	39	25	34	25	----
	Unknown	1	----	----	1	----	----	----	----	----	----	----	----	----	----
Branch	Totals	448	26	27	39	38	34	33	40	38	43	40	43	47	----
	Males	232	14	16	26	23	20	13	24	15	22	20	18	21	----
	Females	216	12	11	13	15	14	20	16	23	21	20	25	26	----
Calhoun	Totals	607	43	37	53	52	46	43	35	67	56	63	64	47	1
	Males	307	18	21	24	24	23	21	20	35	30	34	30	26	1
	Females	300	25	16	29	28	23	22	15	32	26	29	34	21	----
Cass	Totals	310	15	17	24	32	23	22	22	31	28	31	27	37	1
	Males	167	10	13	12	17	9	14	13	15	20	14	12	17	1
	Females	143	5	4	12	15	14	8	9	16	8	17	15	20	----
Charlevoix	Totals	147	7	6	12	4	18	15	11	20	18	14	6	16	----
	Males	70	1	1	5	1	7	12	6	13	7	9	3	5	----
	Females	77	6	5	7	3	11	3	5	7	11	5	3	11	----
Cheboygan	Totals	333	15	14	29	32	26	39	28	34	24	28	25	39	----
	Males	163	9	4	15	15	14	20	11	14	14	18	6	23	----
	Females	170	6	10	14	17	12	19	17	20	10	10	19	16	----
Chippewa	Totals	204	12	21	21	18	15	16	14	18	20	20	10	19	----
	Males	98	4	13	8	9	6	6	7	9	12	10	3	11	----
	Females	106	8	8	13	9	9	10	7	9	8	10	7	8	----
Clare	Totals	131	3	6	8	11	15	17	13	13	18	8	10	9	----
	Males	63	2	3	4	5	9	8	6	8	6	4	5	3	----
	Females	68	1	3	4	6	6	9	7	5	12	4	5	6	----
Clinton	Totals	426	27	20	40	25	45	33	29	40	52	35	40	40	----
	Males	232	15	11	21	13	20	17	14	22	33	13	23	30	----
	Females	193	12	9	19	12	25	16	14	18	19	22	17	10	----
	Unknown	1	----	----	----	----	----	----	1	----	----	----	----	----	----
Crawford	Totals	54	4	4	3	7	3	5	2	8	6	6	4	2	----
	Males	28	2	3	2	4	1	2	----	5	1	4	2	2	----
	Females	26	2	1	1	3	2	3	2	3	5	2	2	----	----

TABLE 4.—CONTINUED.—*Births by counties, by months and by sex.*

Counties.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Delta	Totals	489	34	36	39	31	33	49	46	59	50	30	42	40	----
	Males	267	17	17	21	13	18	26	29	31	28	19	21	27	----
	Females	219	17	18	18	18	15	23	17	28	22	10	21	12	----
	Unknown	3	----	1	----	----	----	----	----	----	----	1	----	1	----
Eaton	Totals	482	21	39	36	37	48	32	38	50	47	41	33	60	----
	Males	239	11	22	16	17	26	11	20	23	27	17	18	31	----
	Females	243	10	17	20	20	22	21	18	27	20	24	15	29	----
Emmet	Totals	156	6	13	9	12	14	11	14	20	16	14	15	12	----
	Males	89	1	7	5	7	9	6	12	13	10	4	8	7	----
	Females	66	5	6	3	5	5	5	2	7	6	10	7	5	----
	Unknown	1	----	----	1	----	----	----	----	----	----	----	----	----	----
Genesee	Totals	548	31	14	46	45	44	55	44	51	46	47	62	62	1
	Males	295	19	5	21	22	29	30	31	30	21	25	35	27	----
	Females	253	12	9	25	23	15	25	13	21	25	22	27	35	1
Gladwin	Totals	35	1	7	4	2	4	4	1	5	----	1	2	4	----
	Males	12	1	1	1	1	----	2	----	3	----	1	----	2	----
	Females	23	----	6	3	1	4	2	1	2	----	----	2	2	----
Gogebic	Totals	303	28	20	28	34	19	30	19	27	19	25	30	24	----
	Males	169	12	13	14	21	7	16	10	15	11	13	19	18	----
	Females	134	16	7	14	13	12	14	9	12	8	12	11	6	----
Gd. Traverse	Totals	195	2	10	19	16	25	16	18	15	15	18	21	19	1
	Males	114	1	6	14	8	17	10	9	8	10	10	13	8	----
	Females	81	1	4	5	8	8	6	9	7	5	8	8	11	1
Gratiot	Totals	500	19	20	36	53	51	48	44	55	49	45	40	38	2
	Males	264	9	10	22	26	21	32	20	26	27	25	22	22	2
	Females	236	10	10	14	27	30	16	24	29	22	20	18	16	----
Hillsdale	Totals	348	16	17	25	31	37	34	29	31	30	41	28	29	----
	Males	188	9	7	12	16	16	20	15	22	15	25	13	18	----
	Females	160	7	10	13	15	21	14	14	9	15	16	15	11	----
Houghton	Totals	1,324	110	91	132	86	124	107	125	121	104	117	95	111	1
	Males	658	54	48	63	37	68	53	54	74	49	59	53	46	----
	Females	666	56	43	69	49	56	54	71	47	55	58	42	65	1
Huron	Totals	805	47	51	74	64	75	65	74	74	92	66	67	54	2
	Males	404	24	27	36	36	38	31	41	32	50	32	32	24	1
	Females	401	23	24	38	28	37	34	33	42	42	34	35	30	1

TABLE 4.—CONTINUED.—*Births by counties, by months, and by sex.*

Counties.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Ingham	Totals	561	44	31	33	43	43	42	56	54	57	39	63	54	2
	Males	284	22	18	14	20	23	22	30	31	21	22	32	28	1
	Females	274	22	13	19	22	20	20	25	23	36	17	31	26	----
	Unknown	3	----	----	----	1	----	----	1	----	----	----	----	----	1
Ionia	Totals	537	36	31	40	38	48	49	67	52	42	54	43	37	----
	Males	279	20	17	19	21	23	30	36	29	21	27	19	17	----
	Females	258	16	14	21	17	25	19	31	23	21	27	24	20	----
Iosco	Totals	350	20	22	20	26	25	44	34	27	51	23	27	31	----
	Males	164	11	11	11	11	12	23	22	11	19	10	13	10	----
	Females	186	9	11	9	15	13	21	12	16	32	13	14	21	----
Iron	Totals	117	11	9	12	8	8	14	6	5	10	11	4	19	----
	Males	59	6	4	7	3	6	7	5	5	2	4	3	7	----
	Females	58	5	5	5	5	2	7	1	----	8	7	1	12	----
Isabella	Totals	429	19	25	20	32	53	39	41	44	43	36	39	37	1
	Males	203	6	14	9	12	23	15	20	23	22	14	23	21	1
	Females	225	13	11	11	20	30	24	21	21	20	22	16	16	----
	Unknown	1	----	----	----	----	----	----	----	----	1	----	----	----	----
Jackson	Totals	699	59	39	49	73	71	40	63	60	72	58	56	59	----
	Males	358	30	17	32	40	30	16	33	27	37	34	27	35	----
	Females	341	29	22	17	33	41	24	30	33	35	24	29	24	----
Kalamazoo	Totals	679	44	34	59	42	55	55	56	70	68	57	70	67	2
	Males	344	18	18	35	24	23	27	32	32	39	33	32	31	----
	Females	335	26	16	24	18	32	28	24	38	29	24	38	36	2
Kalkaska	Totals	101	1	8	3	13	16	12	9	12	7	6	8	6	----
	Males	41	----	3	2	2	8	5	4	5	4	3	3	2	----
	Females	60	1	5	1	11	8	7	5	7	3	3	5	4	----
Kent	Totals	2,248	147	131	139	194	185	187	191	207	215	183	224	244	1
	Males	1,174	86	60	75	96	89	104	95	96	127	105	120	120	1
	Females	1,073	61	71	64	98	96	83	96	111	88	78	103	124	----
	Unknown	1	----	----	----	----	----	----	----	----	----	----	1	----	----
Keweenaw	Totals	131	8	8	10	20	9	11	13	10	14	7	14	7	----
	Males	74	1	4	5	8	9	9	10	6	5	6	7	4	----
	Females	57	7	4	5	12	----	2	3	4	9	1	7	3	----
Lake	Totals	88	6	9	5	8	7	9	3	10	4	12	4	11	----
	Males	44	5	6	3	----	6	5	2	5	3	5	1	3	----
	Females	44	1	3	2	8	1	4	1	5	1	7	3	8	----

TABLE 4.—CONTINUED.—*Births by counties, by months, and by sex.*

Counties.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Lapeer	Totals	528	30	34	44	39	58	41	45	48	59	38	49	43	----
	Males	270	18	19	21	14	32	18	26	22	27	25	28	20	----
	Females	258	12	15	23	25	26	23	19	26	32	13	21	23	----
Leelanaw	Totals	203	8	8	13	14	16	17	17	32	20	18	18	22	----
	Males	116	7	5	8	10	8	8	7	18	13	12	11	9	----
	Females	87	1	3	5	4	8	9	10	14	7	6	7	13	----
Lenawee	Totals	666	39	49	60	48	58	51	51	66	67	55	57	64	1
	Males	322	16	23	27	30	21	22	29	32	37	26	29	30	----
	Females	343	23	25	33	18	37	29	22	34	30	29	28	34	1
	Unknown	1	----	1	----	----	----	----	----	----	----	----	----	----	----
Livingston	Totals	319	32	14	26	24	30	23	23	29	35	35	18	30	----
	Males	166	17	6	21	16	17	10	12	14	15	17	11	10	----
	Females	153	15	8	5	8	13	13	11	15	20	18	7	20	----
Luce	Totals	78	19	4	7	7	7	8	4	4	2	8	5	2	1
	Males	42	11	----	4	4	4	4	4	3	1	2	2	2	1
	Females	36	8	4	3	3	3	4	----	1	1	6	3	----	----
Mackinac	Totals	111	11	6	7	8	11	9	5	11	8	9	9	13	4
	Males	65	7	2	6	3	8	5	1	6	6	7	5	6	3
	Females	46	4	4	1	5	3	4	4	5	2	2	4	7	1
Macomb	Totals	690	49	44	56	55	51	59	71	66	70	49	67	53	----
	Males	370	30	26	26	27	26	27	41	36	35	25	40	31	----
	Females	320	19	18	30	28	25	32	30	30	35	24	27	22	----
Manistee	Totals	685	46	36	69	59	60	50	58	69	52	59	60	67	----
	Males	378	27	15	45	30	28	27	34	42	28	31	34	37	----
	Females	307	19	21	24	29	32	23	24	27	24	28	26	30	----
Manitou	Totals	26	----	1	2	3	4	2	1	4	2	2	2	3	----
	Males	13	----	----	1	----	2	1	1	2	1	2	1	2	----
	Females	13	----	1	1	3	2	1	----	2	1	----	1	1	----
Marquette	Totals	1,198	69	69	104	110	106	117	97	115	96	98	98	119	----
	Males	609	31	29	54	54	55	52	48	67	46	53	59	61	----
	Females	589	38	40	50	56	51	65	49	48	50	45	39	58	----
Mason	Totals	412	23	23	21	34	37	42	41	36	38	38	39	40	----
	Males	214	12	11	9	17	11	21	23	21	24	20	22	23	----
	Females	198	11	12	12	17	26	21	18	15	14	18	17	17	----

TABLE 4.—CONTINUED.—*Births by counties, by months and by sex.*

Counties.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Mecosta	Totals	409	18	26	30	45	48	35	32	35	37	42	34	27	....
	Males	207	8	15	19	26	27	18	13	15	18	19	17	12	....
	Females	201	10	11	11	19	21	17	19	19	19	23	17	15	....
	Unknown	1	....	....	....	....	....	....	....	1	....	....	....	....	....
Menominee	Totals	1,012	56	69	86	82	84	91	78	82	90	96	98	98	2
	Males	521	30	33	44	43	45	40	35	48	54	52	49	48	....
	Females	478	25	36	41	39	38	47	42	34	34	44	48	48	2
	Unknown	13	1	....	1	....	1	4	1	....	2	....	1	2	....
Midland	Totals	229	9	11	13	26	20	24	25	24	21	19	15	22	....
	Males	115	6	7	8	8	8	16	13	7	16	6	8	12	....
	Females	114	3	4	5	18	12	8	12	17	5	13	7	10	....
Missaukee	Totals	111	4	9	7	10	13	5	7	18	10	6	7	15	....
	Males	54	2	6	3	5	7	3	6	9	3	2	3	5	....
	Females	57	2	3	4	5	6	2	1	9	7	4	4	10	....
Monroe	Totals	613	40	31	53	51	55	59	53	56	64	49	44	58	....
	Males	329	27	21	29	25	30	35	31	31	27	21	24	28	....
	Females	284	13	10	24	26	25	24	22	25	37	28	20	30	....
Montcalm	Totals	615	40	32	60	58	65	54	54	60	39	48	50	55	....
	Males	310	20	15	27	30	34	28	26	30	21	23	25	31	....
	Females	305	20	17	33	28	31	26	28	30	18	25	25	24	....
Montmorency	Totals	42	....	3	2	4	6	2	2	3	8	2	5	5	....
	Males	22	....	1	....	3	2	2	1	2	3	2	3	3	....
	Females	20	....	2	2	1	4	....	1	1	5	....	2	2	....
Muskegon	Totals	1,016	89	82	84	85	88	77	86	105	81	77	79	83	....
	Males	539	46	47	45	43	38	48	50	51	42	40	37	52	....
	Females	476	43	35	38	42	50	29	36	54	39	37	42	31	....
	Unknown	1	....	....	1	....	....	....	....	....	....	....	....	....	....
Newaygo	Totals	336	15	17	27	26	32	20	40	29	36	25	33	30	6
	Males	171	10	11	11	13	15	12	27	12	15	7	17	19	2
	Females	165	5	6	16	13	17	8	13	17	21	18	16	11	4
Oakland	Totals	511	28	30	44	48	33	37	37	60	52	43	40	58	1
	Males	267	18	19	20	17	17	22	21	32	27	22	22	30	....
	Females	243	10	11	24	31	16	15	16	28	25	21	18	28	....
	Unknown	1	....	....	....	....	....	....	....	....	....	....	....	....	1
Oceana	Totals	295	19	18	27	26	27	28	17	34	19	29	19	31	1
	Males	159	15	6	14	15	12	13	13	21	11	15	10	14	....
	Females	136	4	12	13	11	15	15	4	13	8	14	9	17	1

TABLE 4.—CONTINUED.—*Births by counties, by months and by sex.*

Counties.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Ogemaw	Totals	105	7	6	9	11	10	12	10	14	6	8	3	9	....
	Males	51	3	3	6	4	3	8	6	7	1	5	....	5	....
	Females	54	4	3	3	7	7	4	4	7	5	3	3	4	....
Ontonagon	Totals	50	2	5	6	4	4	5	3	5	6	6	2	2	....
	Males	24	2	2	2	2	2	3	2	3	2	2	1	1	....
	Females	26	....	3	4	2	2	2	1	2	4	4	1	1	....
Osceola	Totals	299	12	13	24	21	27	40	39	33	30	16	26	18	....
	Males	148	6	6	12	10	16	20	19	11	17	11	13	7	....
	Females	151	6	7	12	11	11	20	20	22	13	5	13	11	....
Oscoda	Totals	33	1	....	....	....	4	3	7	3	2	4	2	7	....
	Males	15	1	....	....	....	2	1	3	1	2	1	1	3	....
	Females	18	....	....	....	....	2	2	4	2	....	3	1	4	....
Otsego	Totals	50	....	3	5	2	2	7	6	7	5	4	3	6	....
	Males	26	....	2	3	1	1	4	2	4	2	2	2	3	....
	Females	24	....	1	2	1	1	3	4	3	3	2	1	3	....
Ottawa	Totals	849	47	57	66	72	73	78	80	74	71	90	70	70	1
	Males	460	28	30	36	41	41	45	38	45	39	56	34	27	....
	Females	388	19	27	30	31	32	33	41	29	32	34	36	43	1
	Unknown	1	....	....	....	....	....	....	1	....	....	....	....	....	....
Presque Isle	Totals	136	8	11	9	15	10	13	7	13	13	13	13	11	....
	Males	71	4	5	5	6	6	7	4	8	4	5	10	7	....
	Females	65	4	6	4	9	4	6	3	5	9	8	3	4	....
Roscommon	Totals	30	2	4	2	....	3	2	3	2	1	3	2	6	....
	Males	18	1	3	1	....	3	2	2	1	....	3	1	1	....
	Females	12	1	1	1	....	....	....	1	1	1	....	1	5	....
Saginaw	Totals	2,281	197	156	192	205	204	172	184	189	196	163	209	214	....
	Males	1,209	106	83	110	118	99	90	101	104	101	86	119	92	....
	Females	1,071	91	73	82	87	105	82	82	85	95	77	90	122	....
	Unknown	1	....	....	....	....	....	....	1	....	....	....	....	....	....
Sanilac	Totals	777	36	44	74	85	80	66	65	62	76	51	70	68	....
	Males	417	15	26	45	44	46	30	40	32	35	31	35	38	....
	Females	360	21	18	29	41	34	36	25	30	41	20	35	30	....
Schoolcraft	Totals	74	1	2	5	5	5	11	9	5	8	4	6	12	1
	Males	39	....	1	3	1	2	8	5	2	4	2	4	7	....
	Females	35	1	1	2	4	3	3	4	3	4	2	2	5	1

TABLE 4.—CONTINUED.—*Births by counties, by months, and by sex.*

Counties.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Shiawassee	Totals	431	32	29	29	39	33	33	32	43	29	44	42	46	....
	Males	224	16	9	14	22	13	12	17	25	17	27	26	26	....
	Females	207	16	20	15	17	20	21	15	18	12	17	16	20	....
St. Clair	Totals	1,102	63	57	94	86	84	72	109	105	94	104	123	106	5
	Males	579	34	24	52	43	51	39	63	54	43	58	52	63	3
	Females	523	29	33	42	43	33	33	46	51	51	46	71	43	2
St. Joseph	Totals	341	21	23	34	23	25	20	24	29	27	35	41	39	....
	Males	181	11	13	23	11	15	7	12	14	14	18	27	16	....
	Females	160	10	10	11	12	10	13	12	15	13	17	14	23	....
Tuscola	Totals	633	43	27	55	54	46	55	62	64	53	54	57	63	....
	Males	329	25	15	27	30	29	26	33	29	29	25	33	28	....
	Females	303	18	12	28	23	17	29	29	35	24	29	24	35	....
	Unknown	1	....	....	....	1	....	....	....	....	....	....	....	....	....
Van Buren	Totals	555	25	29	39	33	53	43	58	65	48	54	44	62	2
	Males	283	9	15	22	21	21	16	27	34	27	34	24	32	1
	Females	271	16	14	17	12	32	27	31	31	21	20	20	30	....
	Unknown	1	....	....	....	....	....	....	....	....	....	....	....	....	1
Washtenaw	Totals	641	34	32	65	55	72	52	38	60	60	56	60	54	3
	Males	331	22	17	32	30	40	28	23	21	34	30	25	27	2
	Females	310	12	15	33	25	32	24	15	39	26	26	35	27	1
Wayne	Totals	12,023	1,014	864	988	936	936	918	1,070	948	1,000	1,143	1,055	1,147	4
	Males	6,371	522	464	529	499	519	488	564	506	529	594	554	601	2
	Females	5,636	491	400	457	437	417	430	506	439	468	546	499	546	....
	Unknown	16	1	....	2	....	....	....	....	3	3	3	2	....	2
Wexford	Totals	254	14	14	20	22	22	20	20	22	31	15	9	31	....
	Males	133	10	7	11	7	11	13	9	11	17	8	14	15	....
	Females	121	4	7	9	15	11	7	11	11	14	7	9	16	....

The number of inhabitants, the births, the birth rates and the proportion of the sexes among the different races of the State are given in Table 5. The working out of the percentages in this report was held for some time in hopes that the returns of the last census would be available, but as they could not be obtained in time, the census of 1884 was used. The population of the State has, of course, changed considerably, which would make much difference in the per cents.

TABLE 5.—*Exhibiting by color and sex, the population of Michigan June 1, 1884, the number of births returned for the year 1889, the per cent of births to population, and the per cent of births of each sex to the total of both sexes. (Still births included.)*

Race or color.	Sex.	Population June 1, 1884, represented by births in 1889.	Children born in 1889.	Per cent of births of each color to total of all colors by sex.	Per cent of children born to inhabitants.	Per cent of each sex to children of both sexes.	Inhabitants to one child born, by color and sex.
All colors	Totals	a 1,843,941	49,272	100.00	2.67	.....	37.42
	Males	968,794	25,642	100.00	2.65	52.09	37.78
	Females	874,941	23,582	100.00	2.70	47.91	37.10
	Unknown	206	48	.....	.....	.....	.....
White	Totals	1,820,947	48,834	99.11	2.68	.....	37.29
	Males	956,854	25,414	99.11	2.66	52.09	37.66
	Females	864,083	23,381	99.15	2.71	47.91	36.96
	Unknown	10	39	81.25	.....	.....	.....
Black	Totals	6,353	206	.42	3.01	.....	33.27
	Males	3,690	102	.40	2.76	49.51	36.18
	Females	3,163	104	.44	3.29	50.49	30.41
Mulatto	Totals	8,257	69	.14	.84	.....	119.67
	Males	4,203	33	.13	.79	47.83	127.36
	Females	4,054	36	.15	.89	52.17	112.61
Indian	Totals	6,784	110	.22	1.62	.....	61.67
	Males	3,509	69	.27	1.97	63.30	50.86
	Females	3,275	40	.17	1.22	36.70	81.87
	Unknown	.....	1	.....	.....	.....	.....
Unknown color	Totals	1,030	53	.11	5.15	.....	19.43
	Males	468	24	.09	5.13	46.67	19.50
	Females	366	21	.09	5.74	53.33	17.43
	Unknown	196	8	.....	.....	.....	.....
Black and Mulatto	Totals	15,110	275	.56	1.82	.....	54.95
	Males	7,893	135	.53	1.71	49.09	58.47
	Females	7,217	140	.59	1.94	50.91	51.55

a Includes 70 Asiatic males.

Table 6 shows the number of births in 1889, and the number of inhabitants in 1884 for each county and by sex. The proportion of births to the number of inhabitants in each county can be seen by this table, but it should be borne in mind that the registration differs much in different counties, some being very imperfect.

The birth rate will be found highest in manufacturing and mining districts, while in the towns and cities where little or no manufacturing is carried on, and agricultural interests largely predominate, the birth rate is much lower. This leads to the conclusion

that mercantile, industrial and manufacturing pursuits have a greater attraction for the younger element of our population than the more quiet work on our farms, and thus the young men and women are drawn from the country into the cities. A large proportion of our foreign population is also found in these manufacturing centers and the percentage of births from this class is usually very large.

TABLE 6.—*Exhibiting, for the State and counties of Michigan, by sex, the population in 1884, the per cent of births in 1889 to population, the number of males to 100 females, and by sex and color, the births returned for 1889. (Still births included.)*

State and counties.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1884 represented by births in 1889.	Per cent of births of each sex to population of same sex.	Color—Children born in 1889.					
					Total of all colors.	White.	Black.	Mulato.	Indian.	Unknown.
State	Totals		1,843,941	2.67	49,272	48,834	206	69	110	53
	Males	52.43	968,794	2.65	25,642	25,414	102	33	69	24
	Females	47.57	874,941	2.69	23,582	23,381	104	36	40	21
	Unknown		206		48	39			1	8
Alcona	Totals		4,028	1.66	67	67				
	Males	50.75	2,428	1.40	34	34				
	Females	49.25	1,600	2.06	33	33				
Alger [a]	Totals				19	17			2	
	Males	36.84			7	6			1	
	Females	63.16			12	11			1	
Allegan	Totals		38,666	2.00	773	764	4	3	2	
	Males	49.80	20,052	1.92	385	382	2		1	
	Females	50.20	18,614	2.08	388	382	2	3	1	
Alpena	Totals		12,683	4.14	525	525				
	Males	52.95	6,990	3.98	278	278				
	Females	47.05	5,693	4.34	247	247				
Antrim	Totals		8,761	2.44	214	213		1		
	Males	55.61	4,736	2.51	119	119				
	Females	44.39	4,025	2.36	95	94		1		
Arenac	Totals		4,027	3.50	141	139			2	
	Males	51.06	2,319	3.10	72	72				
	Females	48.94	1,708	4.04	69	67			2	
Baraga	Totals		3,039	3.46	105	87			18	
	Males	60.00	1,819	3.46	63	51			12	
	Females	40.00	1,220	3.44	42	36			6	
Barry	Totals		24,102	1.93	464	464				
	Males	47.20	12,507	1.75	219	219				
	Females	52.80	11,595	2.11	245	245				

[a] Organized since census was taken.

TABLE 6.—CONTINUED.—*Births by counties, by sex, and by color.*

Counties.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1884 represented by births in 1889.	Per cent of births of each sex to population of same sex.	Color—Children born in 1889.					
					Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Bay	Totals		51,221	3.24	1,659	1,652	4	3		
	Males	50.99	28,215	2.29	846	845		1		
	Females	49.01	23,600	3.44	813	807	4	2		
Benzie	Totals		4,389	2.35	103	98	5			
	Males	47.57	2,349	2.09	49	47	2			
	Females	52.43	2,040	2.64	54	51	3			
Berrien	Totals		37,776	1.72	648	647	1			
	Males	49.23	19,225	1.65	319	318	1			
	Females	50.77	18,551	1.77	328	328				
	Unknown				1	1				
Branch	Totals		27,661	1.62	448	447	1			
	Males	51.79	14,042	1.65	232	231	1			
	Females	48.21	13,619	1.59	216	216				
Calhoun	Totals		41,585	1.46	607	599	4	4		
	Males	50.58	21,297	1.44	307	303	3	1		
	Females	49.42	20,285	1.48	300	296	1	3		
	Unknown		3							
Cass	Totals		21,202	1.46	310	285	9	15	1	
	Males	53.87	10,886	1.52	167	153	5	8	1	
	Females	46.13	10,316	1.39	143	132	4	7		
Charlevoix	Totals		9,275	1.59	147	146		1		
	Males	47.62	5,030	1.39	70	70				
	Females	52.38	4,245	1.81	77	76		1		
Cheboygan	Totals		9,946	3.34	333	330	1		2	
	Males	48.95	5,503	2.96	163	162			[a] 1	
	Females	51.05	4,443	3.83	170	168	1		[b] 1	
Chippewa	Totals		7,127	2.86	204	204				
	Males	48.04	3,954	2.48	98	98				
	Females	51.96	3,173	3.34	106	106				
Clare	Totals		5,549	2.36	131	131				
	Males	48.09	3,251	1.94	63	63				
	Females	51.91	2,298	2.95	68	68				
Clinton	Totals		27,135	1.57	426	424	1	1		
	Males	54.46	14,034	1.65	232	232				
	Females	45.54	13,101	1.47	193	191	1	1		
	Unknown				1	1				

[a] Indian and white. [b] White and Indian.

TABLE 6.—CONTINUED.—*Births by counties, by sex, and by color.*

Counties.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1884, represented by births in 1889.	Per cent of births of each sex to population of same sex.	Color—Children born in 1889.					
					Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Crawford	Totals	.....	1,857	2.91	54	54	.....	.....	.....	.....
	Males	51.85	1,034	2.71	28	28	.....	.....	.....	.....
	Females	48.15	823	3.16	26	26	.....	.....	.....	.....
Delta	Totals	.....	9,817	4.97	489	485	.....	.....	3	1
	Males	54.60	5,776	4.62	267	265	.....	.....	b 2	.....
	Females	45.40	4,041	5.42	219	218	.....	.....	1	.....
	Unknown	.....	.....	.....	3	2	.....	.....	.....	1
Eaton	Totals	.....	31,802	1.52	482	481	1	.....	.....	.....
	Males	49.59	16,210	1.47	239	238	1	.....	.....	.....
	Females	50.41	15,592	1.56	243	243	.....	.....	.....	.....
Emmet	Totals	.....	7,944	1.96	156	132	.....	1	23	.....
	Males	57.05	4,095	2.17	89	74	.....	1	14	.....
	Females	42.95	3,849	1.71	66	57	.....	.....	9	.....
	Unknown	.....	.....	.....	1	1	.....	.....	.....	.....
Genesee	Totals	.....	38,776	1.41	548	545	1	2	.....	.....
	Males	53.83	19,782	1.49	295	295	.....	.....	.....	.....
	Females	46.17	18,994	1.33	253	250	1	2	.....	.....
Gladwin	Totals	.....	1,242	2.81	35	35	.....	.....	.....	.....
	Males	34.29	717	1.67	12	12	.....	.....	.....	.....
	Females	65.71	525	4.38	23	23	.....	.....	.....	.....
Gogebic a	Totals	.....	.....	.....	303	303	.....	.....	.....	.....
	Males	.....	.....	.....	169	169	.....	.....	.....	.....
	Females	.....	.....	.....	134	134	.....	.....	.....	.....
Grand Traverse	Totals	.....	6,699	2.91	195	194	.....	1	.....	.....
	Males	58.41	3,695	3.09	114	113	.....	1	.....	.....
	Females	41.59	3,004	2.70	81	81	.....	.....	.....	.....
Gratiot	Totals	.....	25,049	2.00	500	499	.....	1	.....	.....
	Males	52.80	13,204	2.00	264	263	.....	1	.....	.....
	Females	47.20	11,845	1.99	236	236	.....	.....	.....	.....
Hillsdale	Totals	.....	31,686	1.10	348	348	.....	.....	.....	.....
	Males	54.02	15,911	1.18	188	188	.....	.....	.....	.....
	Females	45.98	15,775	1.01	160	160	.....	.....	.....	.....
Houghton	Totals	.....	26,146	5.07	1,324	1,323	1	.....	.....	.....
	Males	49.70	14,168	4.04	658	658	.....	.....	.....	.....
	Females	50.30	11,978	5.56	666	665	1	.....	.....	.....

a Organized since census was taken. b White and Indian.

TABLE 6.—CONTINUED.—*Births by counties, by sex, and by color.*

Counties.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1884, represented by births in 1889.	Per cent of births of each sex to population of same sex.	Color—Children born in 1889.					
					Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Huron	Totals		21,521	3.74	805	805				
	Males	50.19	12,934	3.12	404	404				
	Females	49.81	11,585	3.46	401	401				
	Unknown		2							
Ingham	Totals		34,939	1.61	561	546	13	1		1
	Males	50.62	17,917	1.59	284	281	3			
	Females	49.38	17,022	1.61	274	263	10	1		
	Unknown				3	2				1
Ionia	Totals		32,559	1.65	537	537				
	Males	51.96	17,057	1.63	279	279				
	Females	48.04	15,502	1.66	258	258				
Iosco	Totals		10,560	3.31	350	348			2	
	Males	46.86	6,034	2.70	164	163			1	
	Females	53.14	4,526	4.11	186	185			1	
Iron a	Totals				117	117				
	Males	50.43			59	59				
	Females	49.57			58	58				
Isabella	Totals		16,011	2.68	429	419	1	1	8	
	Males	47.32	8,597	2.36	203	196		1	6	
	Females	52.68	7,414	3.03	225	223	1		1	
	Unknown				1				1	
Jackson	Totals		45,232	1.55	699	693	3	3		
	Males	51.22	23,385	1.54	358	356	2			
	Females	48.78	21,847	1.56	341	337	1	3		
Kalamazoo	Totals		35,281	1.92	679	675	4			
	Males	50.66	17,875	1.92	344	344				
	Females	49.34	17,406	1.93	335	331	4			
Kalkaska	Totals		4,493	2.25	101	101				
	Males	40.59	2,470	1.66	41	41				
	Females	59.41	2,023	2.96	60	60				
Kent	Totals		84,600	2.65	2,248	2,231	13	4		
	Males	52.22	43,467	2.70	1,174	1,165	7	2		
	Females	47.78	41,133	2.61	1,073	1,065	6	2		
	Unknown				1	1				
Keweenaw	Totals		4,667	2.81	131	131				
	Males	56.49	2,551	2.90	74	74				
	Females	43.51	2,116	2.69	57	57				

a Organized since census was taken.

TABLE 6.—CONTINUED.—*Births by counties, by sex, and by color.*

Counties.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1884 represented by births in 1889.	Per cent of births of each sex to population of same sex.	Color—Children born in 1889.					
					Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Lake	Totals		7,388	1.19	88	88				
	Males	50.00	4,442	.99	44	44				
	Females	50.00	2,946	1.49	44	44				
Lapeer	Totals		30,057	1.76	528	528				
	Males	51.14	15,568	1.73	270	270				
	Females	48.86	14,489	1.78	258	258				
Leelanaw	Totals		7,128	2.85	203	192	1		10	
	Males	57.14	3,842	3.02	116	109	1		6	
	Females	42.86	3,286	2.65	87	83			4	
Lenawee	Totals		49,584	1.36	666	660	4	1		1
	Males	48.32	24,916	1.21	322	320	2			
	Females	51.68	24,668	1.39	343	340	2	1		
	Unknown				1					1
Livingston	Totals		21,568	1.48	319	319				
	Males	52.04	11,254	1.48	166	166				
	Females	47.96	10,314	1.48	153	153				
Lucea	Totals				78	77	1			
	Males	53.85			42	41	1			
	Females	46.15			36	36				
Mackinac	Totals		5,171	2.15	111	89			22	
	Males	58.56	2,948	2.20	65	54			b 11	
	Females	41.44	2,223	2.07	46	35			b 11	
Macomb	Totals		31,293	2.20	690	688	2			
	Males	53.62	15,978	2.32	370	369	1			
	Females	46.38	15,315	2.09	320	319	1			
Manistee	Totals		19,875	3.50	685	685				
	Males	55.18	10,879	3.47	378	378				
	Females	44.82	8,996	3.41	307	307				
Manitou	Totals		1,198	2.17	26	26				
	Males	50.00	547	2.37	13	13				
	Females	50.00	456	2.85	13	13				
	Unknown		195							
Marquette	Totals		31,027	3.86	1,198	1,198				
	Males	50.83	17,375	3.51	609	609				
	Females	49.17	13,652	4.31	589	589				

a Organized since census was taken.
b Five males, 8 females, white and Indian.

TABLE 6.—CONTINUED.—*Births by counties, by sex, and by color.*

Counties.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1884, represented by births in 1889.	Per cent of births of each sex to population of same sex.	Color—Children born in 1889.					
					Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Huron	Totals		21,521	3.74	805	805				
	Males	50.19	12,934	3.12	404	404				
	Females	49.81	11,585	3.46	401	401				
	Unknown		2							
Ingham	Totals		34,939	1.61	561	546	13	1		1
	Males	50.62	17,917	1.59	284	281	3			
	Females	49.38	17,022	1.61	274	263	10	1		
	Unknown				3	2				1
Ionia	Totals		32,559	1.65	537	537				
	Males	51.96	17,057	1.63	279	279				
	Females	48.04	15,502	1.66	258	258				
Iosco	Totals		10,560	3.31	350	348			2	
	Males	46.86	6,034	2.70	164	163			1	
	Females	53.14	4,526	4.11	186	185			1	
Iron a	Totals				117	117				
	Males	50.43			59	59				
	Females	49.57			58	58				
Isabella	Totals		16,011	2.68	429	419	1	1	8	
	Males	47.32	8,597	2.36	203	196		1	6	
	Females	52.68	7,414	3.03	225	223	1		1	
	Unknown				1				1	
Jackson	Totals		45,232	1.55	699	693	3	3		
	Males	51.22	23,385	1.54	358	356	2			
	Females	48.78	21,847	1.56	341	337	1	3		
Kalamazoo	Totals		35,281	1.92	679	675	4			
	Males	50.66	17,875	1.92	344	344				
	Females	49.34	17,406	1.93	335	331	4			
Kalkaska	Totals		4,493	2.25	101	101				
	Males	40.59	2,470	1.66	41	41				
	Females	59.41	2,023	2.96	60	60				
Kent	Totals		84,600	2.65	2,248	2,231	13	4		
	Males	52.22	43,467	2.70	1,174	1,165	7	2		
	Females	47.78	41,133	2.61	1,073	1,065	6	2		
	Unknown				1	1				
Keweenaw	Totals		4,667	2.81	131	131				
	Males	56.49	2,551	2.90	74	74				
	Females	43.51	2,116	2.69	57	57				

a Organized since census was taken.

TABLE 6.—CONTINUED.—*Births by counties, by sex, and by color.*

Counties.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1884 represented by births in 1889.	Per cent of births of each sex to population of same sex.	Color—Children born in 1889.					
					Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Lake	Totals		7,388	1.19	88	88				
	Males	50.00	4,442	.99	44	44				
	Females	50.00	2,946	1.49	44	44				
Lapeer	Totals		30,057	1.76	528	528				
	Males	51.14	15,568	1.73	270	270				
	Females	48.86	14,489	1.78	258	258				
Leelanaw	Totals		7,128	2.85	203	192	1		10	
	Males	57.14	3,842	3.02	116	109	1		6	
	Females	42.86	3,286	2.65	87	83			4	
Lenawee	Totals		49,584	1.36	666	660	4	1		1
	Males	48.32	24,916	1.21	322	320	2			
	Females	51.68	24,668	1.39	343	340	2	1		
	Unknown				1					1
Livingston	Totals		21,568	1.48	319	319				
	Males	52.04	11,254	1.48	166	166				
	Females	47.96	10,314	1.48	153	153				
Lucea	Totals				78	77	1			
	Males	53.85			42	41	1			
	Females	46.15			36	36				
Mackinac	Totals		5,171	2.15	111	89			22	
	Males	58.56	2,948	2.20	65	54			b 11	
	Females	41.44	2,223	2.07	46	35			b 11	
Macomb	Totals		31,293	2.20	690	688	2			
	Males	53.62	15,978	2.32	370	369	1			
	Females	46.38	15,315	2.09	320	319	1			
Manistee	Totals		19,875	3.50	685	685				
	Males	55.18	10,879	3.47	378	378				
	Females	44.82	8,996	3.41	307	307				
Manitou	Totals		1,198	2.17	26	26				
	Males	50.00	547	2.37	13	13				
	Females	50.00	456	2.85	13	13				
	Unknown		195							
Marquette	Totals		31,027	3.86	1,198	1,198				
	Males	50.83	17,375	3.51	609	609				
	Females	49.17	13,652	4.31	589	589				

a Organized since census was taken.
b Five males, 8 females, white and Indian.

TABLE 6.—CONTINUED.—*Births by counties, by sex, and by color.*

Counties.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1894 represented by births in 1889.	Per cent of births of each sex to population of same sex.	Color—Children born in 1889.					
					Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Mason	Totals		12,745	3.23	412	407			5	
	Males	51.94	6,936	3.09	214	210			4	
	Females	48.06	5,809	3.41	198	197			1	
Mecosta	Totals		20,597	1.94	409	403	4	2		
	Males	50.61	11,283	1.83	207	204	2	1		
	Females	49.39	9,314	2.16	201	198	2	1		
	Unknown				1	1				
Menominee	Totals		19,120	5.29	1,012	1,011				1
	Males	51.48	11,488	4.54	521	521				
	Females	48.52	7,632	6.26	478	478				
	Unknown				13	12				1
Midland	Totals		8,776	2.61	229	227		2		
	Males	50.22	4,728	2.43	115	114		1		
	Females	49.78	4,048	2.82	114	113		1		
Missaukee	Totals		3,386	3.28	111	111				
	Males	48.65	2,036	2.65	54	54				
	Females	51.35	1,350	4.22	57	57				
Monroe	Totals		33,353	1.84	613	610	2	1		
	Males	53.67	17,186	1.91	329	327	1	1		
	Females	46.33	16,167	1.76	284	283	1			
Montcalm	Totals		35,356	1.74	615	615				
	Males	50.41	18,774	1.65	310	310				
	Females	49.59	16,581	1.24	305	305				
	Unknown		1							
Montmorency	Totals		845	4.97	42	42				
	Males	52.38	494	4.45	22	22				
	Females	47.62	351	5.70	20	20				
Muskegon	Totals		37,554	2.71	1,016	1,016				
	Males	53.05	20,522	2.62	539	539				
	Females	46.95	17,029	2.79	476	476				
	Unknown		3		1	1				
Newaygo	Totals		18,996	1.77	336	336				
	Males	50.89	10,684	1.60	171	171				
	Females	49.11	8,312	1.99	165	165				

TABLE 6.—CONTINUED.—*Births by counties, by sex, and by color.*

Counties.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1884 represented by births in 1889.	Per cent of births of each sex to population of same sex.	Color—Children born in 1889.					
					Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Oakland	Totals		41,100	1.24	511	510	1			
	Males	52.25	20,821	1.27	267	267				
	Females	47.75	20,279	1.20	243	242	1			
	Unknown				1	1				
Oceana	Totals		14,519	2.03	295	292		1	2	
	Males	53.90	7,859	2.02	159	156		1	2	
	Females	46.10	6,660	2.04	136	136				
Ogemaw	Totals		3,637	2.88	105	105				
	Males	48.57	2,041	2.50	51	51				
	Females	51.43	1,596	3.38	54	54				
Ontonagon	Totals		4,836	1.03	50	50				
	Males	48.00	3,329	.72	24	24				
	Females	52.00	1,507	1.73	26	26				
Osceola	Totals		14,001	2.13	299	299				
	Males	49.50	7,533	1.96	148	148				
	Females	50.50	6,468	2.33	151	151				
Oscoda	Totals		1,374	2.40	33	33				
	Males	45.45	798	1.88	15	15				
	Females	54.55	576	3.12	18	18				
Otsego	Totals		3,906	1.28	50	49		1		
	Males	52.00	2,223	1.17	26	26				
	Females	48.00	1,683	1.43	24	23		1		
Ottawa	Totals		36,225	2.34	849	849				
	Males	54.18	18,970	2.42	460	460				
	Females	45.82	17,255	2.25	388	388				
	Unknown				1	1				
Presque Isle	Totals		4,064	3.35	136	136				
	Males	52.21	2,168	3.27	71	71				
	Females	47.79	1,896	3.43	65	65				
Roscommon	Totals		1,602	1.87	30	30				
	Males	60.00	1,044	1.72	18	18				
	Females	40.00	558	2.15	12	12				
Saginaw	Totals		74,795	3.05	2,281	2,273		1	7	
	Males	53.00	41,588	2.91	1,209	1,202		1	6	
	Females	47.00	33,207	3.22	1,071	1,070			1	
	Unknown				1	1				

TABLE 6.—CONTINUED.—*Births by counties, by sex, and by color.*

Counties.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1884 represented by births in 1889.	Per cent of births of each sex to population of same sex.	Color—Children born in 1889.					
					Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Sanilac	Totals		29,583	2.62	777	777				
	Males	53.67	15,578	2.68	417	417				
	Females	46.33	14,005	2.57	360	360				
Schoolcraft	Totals		3,846	1.92	74	73			1	
	Males	52.70	2,568	1.52	39	38			1	
	Females	47.30	1,278	2.74	35	35				
Shiawassee	Totals		28,078	1.54	431	431				
	Males	51.97	14,731	1.53	224	224				
	Females	48.03	13,347	1.55	207	207				
St. Clair	Totals		46,783	2.36	1,102	1,101		1		
	Males	52.54	24,058	2.41	579	579				
	Females	47.46	22,723	2.30	523	522		1		
	Unknown		2							
St. Joseph	Totals		26,277	1.29	341	341				
	Males	53.08	13,295	1.36	181	181				
	Females	46.92	12,982	1.23	160	160				
Tuscola	Totals		30,726	2.00	633	632		1		
	Males	51.97	16,126	2.04	329	328		1		
	Females	48.03	14.600	2.07	303	303				
	Unknown				1	1				
Van Buren	Totals		30,341	1.83	555	543	10	1		1
	Males	50.99	15,377	1.19	283	276	6	1		
	Females	49.01	14,964	1.81	271	267	4			
	Unknown				1					1
Washtenaw	Totals		41,694	1.54	641	635	4	2		
	Males	51.64	21,067	1.57	331	327	2	2		
	Females	48.36	20,627	1.50	310	308	2			
Wayne	Totals		188,966	6.36	12,023	11,852	110	13		48
	Males	52.16	94,492	6.74	6,371	6,280	59	8		24
	Females	47.84	94,474	5.97	5,636	5,559	51	5		21
	Unknown				16	13				3
Wexford	Totals		10,518	2.41	254	254				
	Males	52.36	5,732	2.32	133	133				
	Females	47.64	4,786	2.53	121	121				

The nativity of parents of children born in 1889 is shown in Table 7. It will be seen that the foreign parents nearly equal the native parents. The native parents include all those born in the United States, and comprise 41.77 per cent of the total for the present year, while for 1888 they were 44.01. The foreign parents comprise 38.95 per cent for the present year, and 36.34 per cent for 1888.

TABLE 7.—*Showing, by sex, the parent nativity of children born in Michigan during the year 1889, according to the returns.*

Nativity of Parents of children born, 1889.	Total births, 1889.							
	Number.				Per cent of total.			
	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.
All nativities	49,272	25,642	23,582	48	100.00	100.00	100.00	100.00
Both parents native born	20,579	10,726	9,841	12	41.77	41.83	41.73	25.00
Both parents foreign born	19,189	10,041	9,124	24	38.95	39.20	39.11	50.00
Foreign father and native mother	5,254	2,678	2,574	2	10.66	10.41	10.92	4.17
Foreign mother and native father	2,952	1,544	1,408	.....	5.99	6.02	5.97	.....
Unknown mother, father native	143	68	75	.....	.29	.27	.32	.....
Unknown mother, father foreign	116	52	64	.....	.23	.20	.27	.....
Unknown father, mother native	206	98	108	.....	.42	.38	.46	.....
Unknown father, mother foreign	97	52	45	.....	.20	.20	.19	.....
Both unknown	736	383	343	10	1.49	1.49	1.03	20.83
One or both native	29,134	15,114	14,006	14	59.13	58.94	59.39	29.17
One or both foreign	27,608	14,367	13,215	26	56.00	56.03	56.04	54.17

Table 8 gives the nativity of parents for 1887 and 1889 inclusive, with the average for the ten years, 1879-1888. It will be seen that the per cent of native parents for 1889 is the lowest of that for any year included in the table, and also lower than the ten years average. The per cent of the foreign born for 1889 is higher than in any of the years, and higher than ten years average. In 1888 the excess of children born of native parents over foreign parentage was 3,751. In 1889 the excess was only 1,390.

TABLE 8.—*Parent nativity of children born in Michigan for each of the years 1887-1889, and the average for ten years, 1879-1888.*

Nativity of parents of children born.		1887.		1888.		1889.		Average for 10 Years, 1879-1888.	
		Number	Per cent of total.	Number	Per cent of total.	Number	Per cent of total.	Number	Per cent of total.
All nativities		46,226	100.00	48,952	100.00	49,272	100.00	41,389	100.00
Both native born		19,881	43.01	21,542	44.01	20,579	41.77	17,626	43.97
Both foreign born		17,077	36.94	17,791	36.34	19,189	38.95	15,632	35.74
Foreign father and native mother		5,058	10.94	5,136	10.49	5,254	10.66	4,509	11.26
Foreign mother and native father		3,001	6.49	2,972	6.07	2,952	5.99	2,478	6.18
One or both unknown		1,209	2.62	1,511	3.09	1,298	2.63	1,144	2.85
One or both parents native [a]		27,940	60.44	29,650	60.56	28,785	58.42	24,687	61.59
One or both parents foreign [a]		25,186	54.38	25,899	52.91	14,263	28.95	21,344	53.25
Father	Native	23,039	49.84	24,643	50.34	23,674	48.05	19,950	49.77
	Foreign	22,220	48.07	23,001	46.99	24,559	49.84	18,917	47.19
	Unknown	967	2.09	1,308	2.67	1,039	2.11	915	2.28
Mother	Native	25,157	54.42	26,876	54.91	26,089	52.85	22,330	55.71
	Foreign	20,174	43.64	20,856	42.60	22,288	45.13	16,892	42.15
	Unknown	895	1.94	1,220	2.49	995	2.02	861	2.15

[a] Excluding cases where nativity of either parent is unknown.

The nativity of parents of children born in 1889 is given in Table 9 for every county in the State. The number of parents whose nativity was unknown is given as 736. The unknown for 1888 was 1,017.

TABLE 9.—*Exhibiting, for the State and counties of Michigan, by sex, the parent nativity of children returned for the year 1889. (Still births included.)*

State and counties.	Sex.	Children born 1889.	Nativity of parents of children born,—1889.								
			Both native-born.	Both foreign-born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father. Native.	Mother unknown. Father. Foreign.	Father unknown. Mother. Native.	Father unknown. Mother. Foreign.	Both unknown.
State	Totals	49,272	20,579	19,189	5,254	2,952	143	116	206	97	736
	Males	25,642	10,726	10,041	2,678	1,544	68	52	98	52	383
	Females	23,582	9,841	9,124	2,574	1,408	75	64	108	45	343
	Unknown	48	12	24	2	.....	.....	.....	.....	.....	10
Alcona	Totals	67	12	29	15	11	.....	.....	.....	.....	.....
	Males	34	8	16	7	3	.....	.....	.....	.....	.....
	Females	33	4	13	8	8	.....	.....	.....	.....	.....
Alger	Totals	19	4	12	2	.....	.....	.....	1	.....	.....
	Males	7	2	4	.....	.....	.....	.....	1	.....	.....
	Females	12	2	8	2	.....	.....	.....	.....	.....	.....
Allegan	Totals	773	543	102	79	41	1	.....	4	.....	3
	Males	385	275	57	32	18	.....	.....	2	.....	1
	Females	388	268	45	47	23	1	.....	2	.....	2
Alpena	Totals	525	52	370	45	39	.....	1	5	.....	13
	Males	278	30	189	25	23	.....	1	4	.....	6
	Females	247	22	181	20	16	.....	.....	1	.....	7
Antrim	Totals	214	99	64	27	21	.....	.....	2	.....	1
	Males	119	53	38	14	12	.....	.....	1	.....	1
	Females	95	46	26	13	9	.....	.....	1	.....	.....
Arenac	Totals	141	30	75	24	12	.....	.....	.....	.....	.....
	Males	72	14	39	14	5	.....	.....	.....	.....	.....
	Females	69	16	36	10	7	.....	.....	.....	.....	.....
Baraga	Totals	105	36	59	6	1	.....	1	.....	1	1
	Males	63	18	40	2	.....	.....	1	.....	1	1
	Females	42	18	19	4	1	.....	.....	.....	.....	.....
Barry	Totals	464	394	26	25	16	.....	.....	1	1	1
	Males	219	188	12	11	7	.....	.....	.....	.....	1
	Females	245	206	14	14	9	.....	.....	1	1	.....

TABLE 9.—CONTINUED.—*Births by counties, parent nativity and sex.*

Counties	Sex.	Children born, 1889.	Nativity of parents of children born,—1889.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father. Native.	Mother unknown. Father. Foreign.	Father unknown. Mother. Native.	Father unknown. Mother. Foreign.	Both unknown.
Huron	Totals	805	143	431	152	72	1	1	2	.....	3
	Males	404	68	211	81	39	1	.....	1	.....	3
	Females	401	75	220	71	33	.....	1	1	.....	.....
Ingham	Totals	561	365	92	33	37	10	1	8	1	14
	Males	284	193	51	8	20	4	.....	3	.....	5
	Females	274	170	40	25	17	6	1	5	1	9
	Unknown	3	2	1	.....	.....	.....	.....	.....	.....	.....
Ionia	Totals	537	396	46	55	22	3	2	8	1	4
	Males	279	199	28	28	15	.....	2	4	.....	3
	Females	258	197	18	27	7	3	.....	4	1	1
Iosco	Totals	350	56	206	30	29	2	2	.....	2	23
	Males	164	29	91	11	14	2	1	.....	2	14
	Females	186	27	115	19	15	.....	1	.....	.....	9
Iron	Totals	117	23	82	9	3	.....	.....	.....	.....	.....
	Males	59	9	44	5	1	.....	.....	.....	.....	.....
	Females	58	14	38	4	2	.....	.....	.....	.....	.....
Isabella	Totals	429	237	102	57	25	2	1	3	.....	2
	Males	203	117	48	26	8	1	.....	1	.....	2
	Females	225	119	54	31	17	1	1	2	.....	.....
	Unknown	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Jackson	Totals	699	465	115	70	30	3	2	5	2	7
	Males	358	245	49	41	14	2	.....	3	1	3
	Females	341	220	66	29	16	1	2	2	1	4
Kalamazoo	Totals	679	424	149	58	35	3	2	3	1	4
	Males	344	211	75	32	19	2	2	2	.....	1
	Females	335	213	74	26	16	1	.....	1	1	3
Kalkaska	Totals	101	66	8	17	8	.....	.....	.....	.....	2
	Males	41	30	2	3	5	.....	.....	.....	.....	1
	Females	60	36	6	14	3	.....	.....	.....	.....	1
Kent	Totals	2,248	906	904	216	136	5	9	10	3	59
	Males	1,174	476	474	110	67	2	4	7	1	33
	Females	1,073	430	429	106	69	3	5	3	2	26
	Unknown	1	.....	1	.....	.....	.....	.....	.....	.....	.....

TABLE 9.—CONTINUED.—*Births by counties, parent nativity and sex.*

Counties.	Sex.	Children born, 1889.	Nativity of parents of children born,—1889.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father. Native.	Mother unknown. Father. Foreign.	Father unknown. Mother. Native.	Father unknown. Mother. Foreign.	Both unknown.
Keweenaw	Totals	131	16	87	27	1					
	Males	74	8	47	18	1					
	Females	57	8	40	9						
Lake	Totals	88	40	29	11	8					
	Males	44	22	15	3	4					
	Females	44	18	14	8	4					
Lapeer	Totals	528	232	134	90	68					4
	Males	270	112	70	47	40					1
	Females	258	120	64	43	28					3
Leelanaw	Totals	203	86	59	34	20			2		2
	Males	116	52	36	11	14			1		2
	Females	87	34	23	23	6			1		
Lenawee	Totals	666	498	88	36	28	1		4		11
	Males	322	255	37	13	8			3		6
	Females	343	243	51	23	20	1		1		4
	Unknown	1									1
Livingston	Totals	319	245	25	30	15					4
	Males	166	126	9	17	10					4
	Females	153	119	16	13	5					
Luce	Totals	78	11	49	4	7				1	6
	Males	42	8	24	3	2				1	4
	Females	36	3	25	1	5					2
Mackinac	Totals	111	47	44	11	7			1		1
	Males	65	27	30	4	4					
	Females	46	20	14	7	3			1		1
Macomb	Totals	690	377	154	96	58		1	2	2	
	Males	370	211	77	52	28				2	
	Females	320	166	77	44	30		1	2		
Manistee	Totals	685	115	491	45	29		1	3	1	
	Males	378	64	273	25	15		1			
	Females	307	51	218	20	14			3	1	
Manitou	Totals	26	5	12	6	3					
	Males	13	2	6	5						
	Females	13	3	6	1	3					

TABLE 9.—CONTINUED.—*Births by counties, parent nativity, and sex.*

Counties.	Sex.	Children born, 1889.	Nativity of parents of children born,—1889.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father. Native.	Mother unknown. Father. Foreign.	Father unknown. Mother. Native.	Father unknown. Mother. Foreign.	Both unknown.
Marquette	Totals	1,198	119	943	75	51	.....	.....	2	4	4
	Males	609	59	482	34	27	.....	.....	1	3	3
	Females	589	60	461	41	24	.....	.....	1	1	1
Mason	Totals	412	131	206	46	22	.....	.....	5	1	1
	Males	214	68	105	24	14	.....	.....	3	.....	.....
	Females	198	63	101	22	8	.....	.....	2	1	1
Mecosta	Totals	409	202	123	43	30	.....	.....	6	.....	5
	Males	207	109	61	19	12	.....	.....	3	.....	3
	Females	201	93	61	24	18	.....	.....	3	.....	2
	Unknown	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Menominee	Totals	1,012	140	689	113	32	.....	2	1	1	34
	Males	521	80	353	50	19	.....	1	.....	1	17
	Females	478	60	325	62	13	.....	1	1	.....	16
	Unknown	13	.....	11	1	.....	.....	.....	.....	.....	1
Midland	Totals	229	106	68	30	23	.....	.....	1	1	.....
	Males	115	53	33	16	12	.....	.....	.....	1	.....
	Females	114	53	35	14	11	.....	.....	1	.....	.....
Missaukee	Totals	111	31	59	15	5	.....	.....	.....	.....	1
	Males	54	17	26	8	3	.....	.....	.....	.....	.....
	Females	57	14	33	7	2	.....	.....	.....	.....	1
Monroe	Totals	613	469	51	57	22	2	2	8	.....	2
	Males	329	244	30	34	14	2	1	3	.....	1
	Females	284	225	21	23	8	.....	1	5	.....	1
Montcalm	Totals	615	353	138	68	37	2	.....	5	3	9
	Males	310	174	72	32	21	.....	.....	3	3	5
	Females	305	179	66	36	16	2	.....	2	.....	4
Montmorency	Totals	42	15	17	4	6	.....	.....	.....	.....	.....
	Males	22	4	11	3	4	.....	.....	.....	.....	.....
	Females	20	11	6	1	2	.....	.....	.....	.....	.....
Muskegon	Totals	1,016	270	574	102	56	3	2	.....	3	6
	Males	539	150	308	48	27	1	2	.....	1	2
	Females	476	119	266	54	29	2	.....	.....	2	4
	Unknown	1	1	.....	.....	.....	.....	.....	.....	.....	.....

TABLE 9.—CONTINUED.—*Births by counties, parent nativity, and sex.*

Counties.	Sex.	Children born, 1889.	Nativity of parents of children born,—1889.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father. Native.	Mother unknown. Father. Foreign.	Father unknown. Mother. Native.	Father unknown. Mother. Foreign.	Both unknown.
Newaygo	Totals	336	184	85	38	21	1	.....	1	.....	6
	Males	171	90	47	21	8	1	.....	.....	.....	4
	Females	165	94	38	17	13	.....	.....	1	.....	2
Oakland	Totals	511	343	59	48	47	6	2	3	.....	3
	Males	267	177	32	27	25	4	1	.....	.....	1
	Females	243	165	27	21	22	2	1	3	.....	2
	Unknown	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Oceana	Totals	295	181	48	29	27	.....	.....	4	.....	6
	Males	159	99	22	14	18	.....	.....	3	.....	3
	Females	136	82	26	15	9	.....	.....	1	.....	3
Ogemaw	Totals	105	38	38	14	12	.....	.....	2	1	.....
	Males	51	18	21	6	6	.....	.....	.....	.....	.....
	Females	54	20	17	8	6	.....	.....	2	1	.....
Ontonagon	Totals	50	27	16	4	1	.....	.....	1	.....	1
	Males	24	12	8	2	1	.....	.....	1	.....	.....
	Females	26	15	8	2	.....	.....	.....	.....	.....	1
Osceola	Totals	299	129	103	36	30	1	.....	.....	.....	.....
	Males	148	60	52	18	17	1	.....	.....	.....	.....
	Females	151	69	51	18	13	.....	.....	.....	.....	.....
Oscoda	Totals	33	14	5	3	3	.....	1	.....	.....	7
	Males	15	5	4	3	2	.....	.....	.....	.....	1
	Females	18	9	1	.....	1	.....	1	.....	.....	6
Otsego	Totals	50	20	16	8	2	1	.....	.....	.....	3
	Males	26	10	9	3	1	.....	.....	.....	.....	3
	Females	24	10	7	5	1	1	.....	.....	.....	.....
Ottawa	Totals	849	367	291	102	69	4	2	8	.....	6
	Males	460	194	167	55	32	3	1	3	.....	5
	Females	388	173	123	47	37	1	1	5	.....	1
	Unknown	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Presque Isle	Totals	136	10	119	4	2	.....	.....	.....	1	.....
	Males	71	6	64	1	.....	.....	.....	.....	.....	.....
	Females	65	4	55	3	2	.....	.....	.....	1	.....

TABLE 9.—CONTINUED.—*Births by counties, parent nativity, and sex.*

Counties.	Sex.	Children born, 1889.	Nativity of parents of children born,—1889.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father. Native.	Mother unknown. Father. Foreign.	Father unknown. Mother. Native.	Father unknown. Mother. Foreign.	Both unknown.
Roscommon	Totals	30	10	13	3	4	.....	.....	.....	.....	.....
	Males	18	7	6	3	2	.....	.....	.....	.....	.....
	Females	12	3	7	.....	2	.....	.....	.....	.....	.....
Saginaw	Totals	2,281	752	932	374	175	2	4	18	9	15
	Males	1,209	411	487	200	84	1	.....	10	7	9
	Females	1,071	340	445	174	91	1	4	8	2	6
	Unknown	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Sanilac	Totals	777	171	366	153	84	.....	.....	2	1	.....
	Males	417	92	203	77	45	.....	.....	.....	.....	.....
	Females	360	79	163	76	39	.....	.....	2	1	.....
Schoolcraft	Totals	74	21	41	10	2	.....	.....	.....	.....	.....
	Males	39	9	24	5	1	.....	.....	.....	.....	.....
	Females	35	12	17	5	1	.....	.....	.....	.....	.....
Shiawassee	Totals	431	277	57	53	33	2	1	3	.....	5
	Males	224	141	33	26	15	2	1	1	.....	5
	Females	207	136	24	27	18	.....	.....	2	.....	.....
St. Clair	Totals	1,102	388	358	198	110	5	8	6	7	22
	Males	579	199	193	108	58	3	5	3	4	6
	Females	523	189	165	90	52	2	3	3	3	16
St. Joseph	Totals	341	252	35	18	18	6	.....	5	.....	7
	Males	181	128	23	13	10	2	.....	1	.....	4
	Females	160	124	12	5	8	4	.....	4	.....	3
Tuscola	Totals	633	297	158	92	71	.....	2	3	2	8
	Males	329	163	75	45	39	.....	1	1	1	4
	Females	303	133	83	47	32	.....	1	2	1	4
	Unknown	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Van Buren	Totals	555	461	24	39	21	.....	1	2	.....	7
	Males	283	234	12	21	11	.....	.....	1	.....	4
	Females	271	226	12	18	10	.....	1	1	.....	3
	Unknown	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Washtenaw	Totals	641	361	128	58	42	4	.....	2	.....	46
	Males	331	175	70	29	22	3	.....	1	.....	31
	Females	310	186	58	29	20	1	.....	1	.....	15

TABLE 9.—CONTINUED.—*Births by counties, parent nativity, and sex.*

Counties.	Sex.	Children born, 1889.	Nativity of parents of children born,—1889.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father. Native.	Mother unknown. Father. Foreign.	Father unknown. Mother. Native.	Father unknown. Mother. Foreign.	Both unknown.
Wayne	Totals	12,623	3,767	6,144	1,123	583	45	35	21	29	276
	Males	6,371	2,021	3,260	573	326	17	14	12	13	135
	Females	5,636	1,743	2,877	550	257	28	21	9	16	135
	Unknown	16	3	7	.....	.....	.....	.....	.....	.....	6
Wexford	Totals	254	109	99	25	21	.....	.....	.....	.....	.....
	Males	133	50	55	16	12	.....	.....	.....	.....	.....
	Females	121	59	44	9	9	.....	.....	.....	.....	.....

TWIN CHILDREN, 1889.

There were 1,054 twin children born in 1889. Of these 547 were males, and 507 were females. In 1888 there were 1,166 twin children, 617 males and 549 females. Beginning with the month having the most twin births, the table gives the births for the year, with the proportion of the sexes, showing a slight increase in the number of males to females over last year, there being 113 males to every one hundred females in 1889, and 112 males to every one hundred females in 1888.

TABLE 10—*Exhibiting, by sex, the number of pairs of twins and twin children returned for the year 1889.*

Year and Month, 1889.		No. of twin children, 1889.				No. of pairs of twins, 1889.					
		Totals.	Males.	Females.	Males to 100 females.	Totals.	Males.	Females.	One of each sex.	Males to 100, one of each sex.	Males to 100 females.
Year, 1889		1,054	a 547	b 507	107	527	174	154	199	87	113
More than the Average No. of Twins.	October	118	63	55	114	59	20	16	23	87	125
	April	106	53	53	100	53	15	15	23	65	100
	July	102	60	42	143	51	20	11	20	100	182
	May	96	51	45	113	48	16	13	19	84	123
	June	90	48	42	114	45	18	15	12	150	120
Average		88	46	42	109	44	15	13	16	94	116
Less than the Average No. of Twins.	January	86	54	32	169	43	19	8	16	113	238
	March	84	40	44	90	42	15	17	10	150	88
	September	82	49	33	148	41	18	10	13	138	180
	August	78	36	42	86	39	11	14	14	79	79
	November	76	30	46	65	38	7	15	16	44	47
	February	68	27	41	66	34	5	12	17	29	42
	December	68	36	32	113	34	10	8	16	63	125

a Includes 36 still-born, 7 black, 4 Mulatto and 1 illegitimate.
b Includes 27 still-born, 3 black, 4 Mulatto, 2 Indian, and 3 illegitimate.

Table 11 gives the parent-nativity of the twin children born during the year 1889 The large number of plural births of foreign nativity is the most conspicuous feature of the table. While the number is not as high as it was in 1888, the proportion between the two classes of native and foreign is considerably changed; there being 238 native and 257 foreign in 1888, and 199 native and 240 foreign plural births in 1889, a difference of 19 in 1888, and of 41 in 1889. Comparing the evidence in this table with that given in table 7, it will be observed that the proportion of twins born of foreign parents was greater than that for all children born, while the reverse is true in regard to the native-born. All of this tends to show that there is a larger twin birth-rate among the foreign-born parents than among the native, and as the statistics of former years also bear the same testimony, it seems to be quite conclusive.

TABLE 11.—*Parent nativity of twins returned in Michigan for 1889.*

Nativity of parents of twins, 1889.	Pairs of twins, 1889.							
	Number.				Per ct. of each parent nativity to total of all nativities.			
	Totals.	Males.	Females.	One of each.	Totals.	Males.	Females.	One of each.
All nativities	527	174	154	199	100.00	100.00	100.00	100.00
Both native born	199	71	61	67	37.76	40.80	39.61	33.67
Both foreign born	240	71	70	99	45.54	40.80	45.46	49.75
Foreign father and native mother	52	20	11	21	9.87	11.50	7.14	10.55
Foreign mother and native father	34	12	11	11	6.45	6.90	7.14	5.53
Unknown mother, father native	.....	.....	.....	.....	.....	.....	.....	.....
Unknown mother, father foreign	.....	.....	.....	.....	.....	.....	.....	.....
Unknown father, mother native	1	.....	.....	1	.19	.....	.....	.50
Unknown father, mother foreign	.....	.....	.....	.....	.....	.....	.....	.....
Both unknown	1	.....	1	.....	.19	.....	.65	.....
One or both native	286	103	83	100	54.27	59.20	53.90	50.25
One or both foreign	326	103	92	131	61.86	59.14	59.74	65.83

The proportion of twin births by nativity and color of mothers for each of the years 1887, 1888 and 1889, and the average for ten years 1879–1888 is given in table 12, which bears out the evidence concerning the nativity of mothers of twins given in Table 11.

TABLE 12.—*By nativity and color of mothers, the number and proportion of twin births returned for the years 1887-1888 and the average for ten years, 1879-1888.*

Nativity and color of mothers of twins, 1887-1889.	1887.			1888.			1889.			Average for 10 years, 1879-1888.		
	Number of pairs of twins.	Whole No. of mothers including those of twins.	Per cent of births of twins to all mothers.	Number of pairs of twins.	Whole No. of mothers including those of twins.	Per cent of births of twins to all mothers.	Number of pairs of twins.	Whole No. of mothers including those of twins.	Per cent of births of twins of all mothers.	Number of pairs of twins.	Whole No. of mothers including those of twins.	Per cent of births to twins to all mothers.
Mothers of all colors and all nativities	528	45,688	1.16	583	48,350	1.20	527	48,727	1.08	457	39,613	1.15
All native born mothers	271	24,880	1.09	286	26,582	1.07	252	25,775	.98	243	22,081	1.10
All foreign born mothers	245	19,925	1.23	288	20,557	1.40	274	21,958	1.25	206	16,680	1.24
Mothers of unknown nativities	12	883	1.36	9	1,211	.74	1	994	.10	8	852	.94
White	513	45,127	1.10	577	47,867	1.20	517	48,299	1.07	450	39,209	1.15
Black	10	254	3.94	1	234	.43	5	201	2.49	3	145	2.07
Mulatto	1	67	1.49	1	106	.94	4	65	6.15	2	95	2.10
Indian	3	113	2.65	4	126	3.17	1	109	.91	2	121	1.65
Unknown	1	127	.79	.....	17	.....	.....	53	.....	.....	43	.....
Black and Mulatto	11	321	3.43	2	340	.58	9	266	3.38	5	240	2.08

Table 13 gives the record of the births of triplet children, of which there were six cases during the year 1889. The native born parents in this instance outnumber the foreign born parents. In the sex of the children born, the males as usual are in excess of the females.

TABLE 13.—*Exhibiting certain details concerning triplet children returned for the year 1889.*

Counties.	Triplet children, 1889.					Parents of triplets.		
	Month of birth, 1889.	Color.	Sex. Male	Sex. Females.	Sex. Unknown.	Birthplace of father.	Birthplace of mother.	Occupation of father.
Berrien	May	White	2	1	.....	Ohio	Indiana	Laborer.
Jackson	Dec.	White	3	.....	.....	Michigan	Michigan	Fireman.
Kalamazoo	Sept.	White	2	1	.....	Pennsylvania	Michigan	Farmer.
Oakland	Nov.	White	* 2	* 2	.....	Michigan	New York	Farmer.
Ottawa	July	White	.....	.....	* 3	Netherlands	Netherlands	Laborer.
Saginaw	March	White	3	.....	.....	New Brunswick	Canada	Molder.

* All still born.

In Table 14 may be seen the number of pairs of twins and sets of triplets returned for each of the years 1876–1889, also the average for these years. It appears from the facts here presented that the proportion of twin births to single births does not vary materially in the course of a series of years, there being about 88 single births to each pair of twins.

TABLE 14.—*Exhibiting the number of pairs of twins and cases of triplets returned in Michigan for the 14 years, 1876–1889, and the average for these years.*

Years.	Pairs of twins.	Cases of triplets.	No. of births to one pair of twins.	No. of births to one case of triplets.
1876	428	8	80	4,279
1877	367		91	33,395
1878	427	3	82	11,721
1879	402	2	85	17,061
1880	358	5	99	7,065
1881	372	5	93	6,950
1882	430	9	86	4,114
1883	466	9	88	4,534
1884	450	4	90	10,102
1885	481	7	88	6,017
1886	501	6	82	6,849
1887	528	5	88	9,245
1888	583	8	84	6,119
1889	527	6	93	8,212
Average	451	5	88	96.90

The statistics of plural births for fourteen years past, classified according to the parent nativity, are given in Table 15. It will be seen that the per cent of native parents is lower for 1889 than for any of the fourteen years included in the table, and that the per cent of foreign parents is higher than ever before.

TABLE 15.—*Exhibiting the parent nativity of plural births returned in Michigan for the fourteen years, 1876–1889.*

Years.	Totals.	Native born.		Foreign born.		Mixed.		Unknown.	
		Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
1876	880	391	44.43	322	36.59	143	16.25	24	2.73
1877	734	334	45.51	252	34.33	122	16.62	26	3.54
1878	863	402	46.58	291	33.72	142	16.45	28	3.25
1879	810	374	46.17	236	29.14	188	23.21	12	1.48
1880	731	341	46.65	276	37.75	104	14.23	10	1.37
1881	759	355	46.77	270	35.57	124	16.34	10	1.32
1882	887	350	39.46	358	40.36	153	17.25	26	2.93
1883	959	417	43.48	364	37.96	150	15.64	28	2.92
1884	912	360	39.47	396	43.42	144	15.79	12	1.32
1885	983	384	39.06	414	42.12	155	15.77	30	3.05
1886	1,020	419	41.08	407	39.90	176	17.26	18	1.76
1887	1,071	448	41.83	423	39.49	168	15.69	32	2.99
1888	1,194	485	40.62	530	44.39	159	13.32	20	1.67
1889	1,072	410	38.25	486	45.34	172	16.04	4	0.37
Average	920	391	42.81	359	38.58	151	16.42	20	2.19

STILL BIRTHS, 1889.

The returns for 1889, as given in Table 16, show that there were 1,202 still births during the year, of which 692 were males, 483 females, and 27 of which the sex was not given. This is less than the number returned for 1888, which was 1,358, and more than for 1887, when only 807 still births were reported.

TABLE 16.—*The relation of still births to all births and the relation of mothers of still born children to all mothers returned for the years 1886–1889, and the average for ten years, 1879–1888.*

Children and mothers.	Total births and still births.				
	1886.	1887.	1888.	1889.	Average for 10 years, 1879–1888.
All children born	41,095	46,226	48,952	49,272	41,389
Still born children	909	897	1,358	1,202	824
Per cent of still born to total	2.21	1.94	2.77	2.43	2.21
All mothers	40,582	45,688	48,350	48,727	39,613
Mothers of still born children	880	869	1,322	1,167	871
Per cent of mothers of still born children to all mothers	2.17	1.90	2.73	2.39	2.18

The facts concerning the nativity and color of the mothers of still born children may be learned in Table 17. The percentage of native born mothers is again the lowest, not only for each year of the table, but also for the ten year average. The black and Mulatto mothers continue to have the highest per cent, while the Indian mothers have the lowest, there being none for 1889.

TABLE 17.—*By nativity and color, the number and proportion of mothers having still births, for the year 1887-1889, and the average for ten years, 1879-1888.*

Nativity and color of mothers.	1887.			1888.			1889.			Average for 10 years, 1879-1888.		
	Mothers having still-births.	Whole No. of mothers, including those of still births.	Per cent of mothers of still births to all mothers.	Mothers having still births.	Whole No. of mothers, including those of still births.	Per cent of mothers of still births to all mothers.	Mothers having still births.	Whole No. of mothers, including those of still births.	Per cent of mothers of still births to all mothers.	Mothers having still births.	Whole No. of mothers, including those of still births.	Per cent of mothers of still births to all mothers.
Mothers of all colors and all nativities	869	45,688	1.90	1,322	48,350	2.73	1,167	48,727	2.39	871	39,613	2.20
All native born mothers	408	24,880	1.64	604	26,582	2.27	512	25,570	2.00	404	22,081	1.83
All foreign born mothers	367	19,925	1.84	539	20,557	2.62	495	21,861	2.26	346	16,680	2.07
Mothers of unknown nativities	94	883	10.65	179	1,211	14.78	160	1,296	12.35	121	852	14.20
White	849	45,127	1.88	1,288	47,867	2.69	1,141	48,299	2.36	848	39,209	2.16
Black	12	254	4.72	17	234	7.26	19	201	9.45	8	145	5.52
Mulatto	.....	67	.....	6	106	5.66	3	65	4.62	3	95	3.16
Indian	4	113	3.54	3	126	2.38	.....	109	.....	2	121	1.65
Unknown	4	127	3.15	8	17	47.06	4	53	7.55	10	43	23.26
Black and Mulatto	12	321	3.74	23	340	6.76	22	266	8.27	11	240	4.58

Table 18 gives the nativity of parents of still born children for the year 1889. A comparison of the tables relating to still births will show that while the foreign born mothers are more productive than the native mothers, yet a large proportion of their children are still born.

TABLE 18.—*Parent nativity of still born children returned for the year 1889.*

Nativity of parents of still born children, 1889.	Still born children, 1889.							
	Number.				Per cent of each parent nativity to total of all nativities.			
	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.
All nativities	1,202	692	483	27	100.00	100.00	100.00	100.00
Both native born	413	240	171	2	34.36	34.68	35.40	7.41
Both foreign born	472	267	188	17	39.27	38.58	38.92	62.96
Foreign father and native mother	99	63	34	2	8.24	9.10	7.04	7.41
Foreign mother and native father	58	40	18	.....	4.83	5.79	3.73	.....
Unknown mother, father native	1	.....	1	.....	.08	.....	.21	.....
Unknown mother, father foreign	4	3	1	.....	.33	.43	.21	.....
Unknown father, mother native	12	7	5	.....	1.00	1.01	1.04	.....
Unknown father, mother foreign	4	2	2	.....	.33	.29	.41	.....
Both unknown	139	70	63	6	11.56	10.12	13.04	22.22
One or both native	583	350	229	4	48.50	50.58	45.34	14.81
One or both foreign	637	375	243	19	52.16	54.19	50.31	70.37

TABLE 19.—*Exhibiting by sex, the parent nativity, and by sex and months, the number of still births returned in Michigan for the year 1889.*

Sex of still births, 1889.	Year, 1889.	Months, 1889.													Nativity of parents of still births, 1889.								
																			Mother unknown.		Father unknown.		
																			Father.		Mother.		
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Native.	Foreign.	Foreign father and native mother.	Foreign mother and native father.	Native.	Foreign.	Native.	Foreign.	Both unknown.
Totals	a 1,202	82	70	109	102	77	95	94	102	107	117	114	129	4	413	472	99	58	1	4	12	4	139
Males	b 692	46	41	61	59	44	42	58	61	68	68	71	70	3	240	267	63	40	.....	3	7	2	70
Females	c 483	34	28	46	42	32	50	32	41	35	47	40	56	....	171	188	34	18	1	1	5	2	63
Unknown	d 27	2	1	2	1	1	3	4	.....	4	2	3	3	1	2	17	2	.....	.....	.....	.....	.....	6

a Includes 7 pairs and 12 half pairs of male twins; 5 pairs and 10 half pairs female twins; 13 pairs one of each sex.
b Includes 684 white, 6 black, 2 mulatto and 5 illegitimate.
c Includes 467 white, 13 black, 2 mulatto and 1 unknown.
d Includes 25 white and 2 unknown color.

In Table 20 may be seen the proportion of male to female children among those born alive, the still births and illegitimates. While in all other cases the males born are in excess of the females, yet in the illegitimates the females are in excess, there being five more females than males for 1889, and for 1888 there were 28 more females than males.

TABLE 20.—*Exhibiting the proportion of males to females among children born alive, still births and illegitimates.*

		1888.	1889.	Average for 10 years, 1879-1888.
Born alive	Males	24,717	24,950	22,155
	Females	22,867	23,099	20,627
	Unknown	10	21	29
Males to 100 females		108	108	107
Still born	Males	809	692	474
	Females	534	483	328
	Unknown	15	27	38
Males to 100 females		151	143	144
Illegitimate	Males	298	200	157
	Females	298	219	159
	Unknown		2	2
Males to 100 females		98	91	98

ILLEGITIMATE CHILDREN, 1889.

The number of illegitimate births returned for 1889 was 421, a considerable decrease from 1888 when there were recorded 591 such births, but which was the most ever recorded in the history of the registration. These births represent a ratio of 8.48 to each one thousand of the whole number of births of the State.

TABLE 21.—*The relation of illegitimate children to all children born for the years 1886-1889, and the average for 10 years, 1879-1888.*

Children and mothers.	Total births and illegitimates.				
	1886.	1887.	1888.	1889.	Av. for 10 years, 1879-1888.
All children born	41,095	46,226	48,952	49,272	41,389
Illegitimate children	300	422	591	421	346
Per cent of illegitimates to total	.73	.91	1.20	.84	.86
All mothers	40,582	45,688	48,350	48,727	39,613
Mothers of illegitimate children	297	418	590	419	343
Per cent of mothers of illegitimates to all mothers	.73	.91	1.22	.84	.86

In Table 22 are presented the statistics concerning the nativity and color of mothers of illegitimate children for several years. The proportion of white mothers is seen to be the lowest in every case. The highest proportion for 1889 is the Mulatto.

TABLE 22.—*By nativity and color, the number and proportion of mothers of illegitimates returned for the years 1887-1889, and the average for ten years, 1879-1888.*

Nativity and color of mothers.	1887.			1888.			1889.			Average for 10 years, 1879-1888.		
	Mothers having illegitimates.	Whole number of mothers including those of illegitimates.	Per cent of mothers of illegitimates to all mothers.	Mothers having illegitimates.	Whole number of mothers including those of illegitimates.	Per cent of mothers of illegitimates to all mothers.	Mothers having illegitimates.	Whole number of mothers including those of illegitimates.	Per cent of mothers of illegitimates to all mothers.	Mothers having illegitimates.	Whole number of mothers including those of illegitimates.	Per cent of mothers of illegitimates to all mothers.
Mothers of all colors and all nativities	418	45,688	.91	590	48,350	1.22	419	48,727	.86	344	39,613	.87
All native born mothers	150	24,880	.60	149	26,582	.56	126	25,775	.49	141	22,081	.64
All foreign born mothers	70	19,925	.35	71	20,557	.34	73	21,958	.33	76	16,680	.46
Mothers of unknown nativities	198	883	22.42	370	1,211	30.55	220	994	22.13	127	852	14.91
White	319	45,127	.71	571	47,867	1.19	404	48,299	.84	318	39,209	.81
Black	10	254	3.93	12	234	5.12	7	201	3.48	7	145	4.83
Mulatto	7	67	10.45	2	106	1.88	4	65	6.15	4	95	4.21
Indian	8	113	7.08	5	126	3.96	2	109	1.83	7	121	5.79
Unknown	74	127	58.27	.....	17	.....	2	63	3.18	8	43	18.60
Black and Mulatto	17	321	5.30	14	340	4.11	11	266	4.14	11	239	4.60

TABLE 23.—*Exhibiting by sex, the number by months, and the nativity of parents of illegitimates returned for the year 1889.*

Sex of illegitimates, 1889.	Year, 1889.	Months, 1889.													Nativity of mothers of illegitimates, 1889.							Nativity of fathers of illegitimates, 1889.						
															Native.			Foreign.				Native.			Foreign.			
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Totals.	Born in Michigan.	Born in other states.	Totals.	Born in Canada.	Born in other countries.	Unknown.	Totals.	Born in Michigan.	Born in other states.	Totals.	Born in Canada.	Born in other countries.	Unknown.
Totals	421	33	35	35	44	38	36	44	31	30	33	29	33	....	127	107	20	74	24	50	220	45	37	8	36	12	24	340
Males	200	16	16	14	20	18	21	23	14	12	19	14	13	....	56	44	12	40	13	27	104	18	15	3	18	6	12	165
Females	219	17	19	21	24	20	15	21	16	17	14	15	20	....	71	63	8	34	11	23	114	27	22	5	18	6	12	175
Unknown	2	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....

TABLE 2[illegible]. *[illegible]ex and color, the population of 1884, the number of [illegible]e year 1889, and the per cent of such children to*

	[illegible]ulation in 1884, represented by births in 1889.	Total illegitimate births, 1889.	Per cent of births to population.	Per cent of each sex to total of both sexes.	Number of inhabitants to one illegitimate child of the same color.
1[illegible]	[illegible]	421	.02	.....	4,380
1[illegible]	[illegible]	200	.02	47.50	4,844
1880	[illegible]	219	.03	52.02	3,995
1881	[illegible]	2	.97	.48	103
1882	301 [illegible]	[illegible]	.02	.....	4,496
Average 14 years	[illegible]	[illegible]	.02	46.91	5,036
	[illegible]	[illegible]	.02	52.59	4,057
	[illegible]	[illegible]	.20	.50	5
	[illegible]	[illegible]	.10	.....	979
	[illegible]	[illegible]	11	57.14	923
	[illegible]	[illegible]	[illegible]	42.86	1,054
	[illegible]	[illegible]	[illegible]	.....	1,651
	[illegible]	[illegible]	[illegible]	[illegible]	1,051
	[illegible]	[illegible]	[illegible]	[illegible]	4,054
	[illegible]	[illegible]	[illegible]	[illegible]	3,392
	[illegible]	[illegible]	[illegible]	[illegible]	3,509
	[illegible]	[illegible]	[illegible]	[illegible]	3,273
	[illegible]	[illegible]	[illegible]	[illegible]	515
	[illegible]	[illegible]	[illegible]	[illegible]	168
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table 25 gives the nativity of mothers of [illegible] fourteen years. Unless certain facts are taken [illegible] the native born mothers were more immoral than [illegible] remembered that nearly all Indians and those of [illegible] born. Also the difference in population, there [illegible] females between the ages of 15 and 45 to 125,373 for [illegible]

TABLE 23.—*Exhibiting by sex, the number by months, and the nativity of parents of illegitimates returned for the year 1889.*

Sex of illegitimates, 1889.	Year, 1889.	Months, 1889.													Nativity of mothers of illegitimates, 1889.							Nativity of fathers of illegitimates, 1889.						
															Native.			Foreign.				Native.			Foreign.			
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Totals.	Born in Michigan.	Born in other states.	Totals.	Born in Canada.	Born in other countries.	Unknown.	Totals.	Born in Michigan.	Born in other states.	Totals.	Born in Canada.	Born in other countries.	Unknown.
Totals	421	33	35	35	44	38	36	44	31	30	33	29	33	....	127	107	20	74	24	50	220	45	37	8	36	12	24	340
Males	200	16	16	14	20	18	21	23	14	12	19	14	13	....	56	44	12	40	13	27	104	18	15	3	18	6	12	165
Females	219	17	19	21	24	20	15	21	16	17	14	15	20	....	71	63	8	34	11	23	114	27	22	5	18	6	12	175
Unknown	2	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....

TABLE 24.—*Exhibiting the number and ratio of illegitimate births returned in fourteen years, 1876–1886.*

Years.	Children born out of wedlock.		Years.	Children born out of wedlock.	
	Number.	To every 1,000 births.		Number.	To every 1,000 births.
1876	266	7.77	1883	311	7.62
1877	316	9.46	1884	198	4.78
1878	202	5.74	1885	248	5.89
1879	292	8.56	1886	300	7.30
1880	425	12.03	1887	422	9.13
1881	382	10.99	1888	591	12.07
1882	301	8.18	1889	421	8.54
Average 14 years				334	8.43

Table 25 gives the nativity of mothers of illegimate children as returned for the last fourteen years. Unless certain facts are taken into consideration it would appear that the native born mothers were more immoral than the foreign born mothers. It must be remembered that nearly all Indians and those of African descent are classed as native born. Also the difference in population, there being in Michigan 291,906 native born females between the ages of 15 and 45 to 125,373 foreign born females of the same age.

TABLE 25.—*Showing the nativity of mothers of illegitimates returned for the fourteen years, 1876–1889.*

Years.	Totals.	Native.		Foreign.		Unknown.	
		Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
1876	266	173	65.04	53	19.92	40	15.04
1877	316	161	50.95	80	25.32	75	23.73
1878	202	114	56.44	34	16.83	54	26.73
1879	292	137	46.92	90	30.82	65	22.26
1880	425	148	34.82	73	17.18	204	48.00
1881	382	187	48.95	98	25.65	97	25.40
1882	301	145	48.17	77	25.58	79	26.25
1883	311	137	44.05	86	27.65	88	28.30
1884	193	103	53.37	69	35.75	21	10.88
1885	248	115	46.37	86	34.68	47	18.95
1886	300	142	47.33	45	15.00	113	37.67
1887	422	151	35.78	72	17.06	199	47.16
1888	591	149	25.21	72	12.18	370	62.61
1889	419	126	30.08	73	17.42	220	52.51
Average	333	142	45.25	72	23.00	119	31.82

TABLE 26.—*Exhibiting, by sex and color, the population of 1884, the number of illegitimates returned for the year 1889, and the per cent of such children to inhabitants.*

Color or race.	Sex.	Population in 1884, represented by births in 1889.	Total illegitimate births, 1889.	Per cent of births to population.	Per cent of each sex to total of both sexes.	Number of inhabitants to one illegitimate child of the same color.
All colors	Totals	a1,843,941	421	.02		4,380
	Males	968,794	200	.02	47.50	4,844
	Females	874,941	219	.03	52.02	3,995
	Unknown	206	2	.97	.48	103
White	Totals	1,820,947	405	.02		4,496
	Males	956,854	190	.02	46.91	5,036
	Females	864,083	213	.02	52.59	4,057
	Unknown	10	2	.20	.50	5
Black	Totals	6,853	7	.10		979
	Males	3,690	4	.11	57.14	923
	Females	3,163	3	.09	42.86	1,054
Mulatto	Totals	8,257	5	.06		1,651
	Males	4,203	4	.10	80.00	1,051
	Females	4,054	1	.02	20.00	4,054
Indian	Totals	6,784	2	.03		3,392
	Males	3,509	1	.03	50.00	3,509
	Females	3,275	1	.03	50.00	3,275
Unknown	Totals	1,030	2	.19		515
	Males	468	1	.21	50.00	468
	Females	366	1	.27	50.00	366
	Unknown	196				
Black and Mulatto	Totals	15,110	12	.08		1,259
	Males	7,893	8	.10	66.67	987
	Females	7,217	4	.06	33.33	1,804

a Includes 70 Asiatic males.

TABLE 27.—*Exhibiting by counties, the number of pairs of twins, and the number of illegitimate and still born children returned for the year 1889.*

State and counties.	Number of pairs of twins born in 1889.	Number of illegitimate children born in 1889.	Number of still births in 1889.	Counties.	Number of pairs of twins born in 1889.	Number of illegitimate children born in 1889.	Number of still births in 1889.
State	527	421	1,202	Ingham	9	5	18
				Ionia	5	4	8
Alcona	.....	.....	.....	Iosco	2	2	9
Alger	.....	1	.....	Iron	2	.....	1
Allegan	7	1	14	Isabella	1	1	5
Alpena	10	.....	12	Jackson	8	1	16
Antrim	2	2	3	Kalamazoo	5	1	19
Arenac	3	.....	4	Kalkaska	2	.....	1
Baraga	1	1	2	Kent	28	43	63
Barry	5	2	7	Keweenaw	1	1	4
Bay	21	6	48	Lake	.....	.....	.....
Benzie	1	.....	4	Lapeer	7	1	12
Berrien	9	3	10	Leelanaw	4	1	5
Branch	3	5	19	Lenawee	12	6	11
Calhoun	6	2	15	Livingston	6	1	5
Cass	3	2	4	Luce	.....	1	1
Charlevoix	1	2	.....	Mackinac	1	1	3
Cheboygan	5	2	3	Macomb	7	5	17
Chippewa	2	.....	1	Manistee	6	5	18
Clare	3	.....	1	Manitou	.....	1	.....
Clinton	4	2	8	Marquette	15	9	33
Crawford	.....	.....	.....	Mason	5	1	7
Delta	8	1	12	Mecosta	5	8	5
Eaton	5	4	10	Menominee	9	.....	39
Emmet	3	2	6	Midland	.....	1	10
Genesee	6	3	14	Missaukee	.....	.....	2
Gladwin	2	.....	1	Monroe	7	3	15
Gogebic	3	1	6	Montcalm	13	6	10
Grand Traverse	2	1	4	Montmorency	.....	.....	5
Gratiot	8	1	5	Muskegon	8	.....	37
Hillsdale	4	2	10	Newaygo	1	1	6
Houghton	9	11	29	Oakland	4	2	23
Huron	9	2	23	Oceana	.....	3	7

TABLE 27.—CONTINUED.—*Births, 1889.*

Counties.	Number of pairs of twins born in 1889.	Number of illegitimate children born in 1889.	Number of still births in 1889.	Counties.	Number of pairs of twins born in 1889.	Number of illegitimate children born in 1889.	Number of still births in 1889.
Ogemaw	1	3	.....	Schoolcraft	1	.....	1
Ontonagon	1	.....	3	Shiawassee	4	.....	12
Osceola	6	.....	7	St. Clair	18	14	32
Oscoda	.....	.....	.....	St. Joseph	6	4	6
Otsego	.....	.....	3	Tuscola	6	3	22
Ottawa	4	6	26	Van Buren	4	6	13
Presque Isle	1	.....	3	Washtenaw	4	5	15
Roscommon	.....	.....	.....	Wayne	131	190	301
Saginaw	15	12	53	Wexford	.....	.....	3
Sanilac	7	5	11				

Table 28 gives the names of the townships in Michigan in which it was reported there were no births in 1889. Four of these townships were organized since the census of 1884 and the remaining ones represent a population of 2,901.

TABLE 28.—*Townships in which it was reported there were no births in 1889.*

Counties.	Townships, no births in 1889.	Population in 1884.		
		Totals.	Males.	Females.
Totals		2,901	2,043	858
Arenac	Turner [a]	.....	.....	.....
Benzie	Colfax	179	91	88
Cheboygan	Burt	353	192	161
	Waverly	49	33	16
Crawford	Blaine [a]	.....	.....	.....
Houghton	Laird [a]	.....	.....	.....
Ogemaw	Hill	30	20	10
	Mills	62	33	29
Ontonagon	Carp Lake	1,117	1,069	48
	Interior [a]	.....	.....	.....
Oscoda	Big Creek	143	82	61
Otsego	Bagley	643	338	305
	Dover	160	91	69
Wexford	Boon	165	94	71

[a] Organized since census was taken.

Table 29 shows the townships, and the counties in which they are located, from which no returns of births were received for the year 1889. As usual the supervisors failed to make the proper returns to the county clerk.

TABLE 29.—*Exhibiting the counties and townships from which no returns of births were received in 1889.*

Counties.	Townships, for which no returns of births were received for 1889.	Population, June 1, 1884.			White.			Black and Mulatto.			Indian.			Unknown.			Native.			Foreign.			Unknown.		
		Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.
Totals		9,717	5,630	4,087	9,533	5,522	4,011	13	10	3	116	65	51	55	33	22	6,137	3,306	2,831	3,555	2,307	1,248	25	17	8
Chippewa	Detour	615	384	231	565	353	212	8	8		1		1	41	23	18	199	123	76	414	260	154	2	1	1
	Superior	680	408	272	557	339	218				115	65	50	8	4	4	320	179	141	358	227	131	2	2	
	Trout Lake [a]																								
	White Fish [a]																								
Crawford	Frederic	355	240	115	353	239	114	2	1	1							201	118	83	154	122	32			
	Grove	177	107	70	177	107	70										135	75	60	42	32	10			
Delta	Maple Ridge	175	100	75	175	100	75										97	47	50	78	53	25			
	Minnewauska [a]																								
Gladwin	Billings	83	50	33	83	50	33										59	33	26	24	17	7			
	Buck Eye	102	63	39	102	63	39										77	44	33	25	19	6			
	Sage	112	69	43	112	69	43										76	41	35	36	28	8			
Gd. Traverse	East Bay	1,013	555	458	1,012	554	458	1	1								815	447	368	191	105	86	7	3	4
	Peninsular	970	528	442	969	528	441	1		1							765	414	351	201	111	90	4	3	1
	Traverse	3,410	1,744	1,666	3,407	1,742	1,665	1		1				2	2		2,303	1,124	1,179	1,104	618	486	3	2	1
Iosco	Tompson	42	26	16	42	26	16										24	12	12	18	14	4			
Iron [a]	Felch																								
	Mastodon																								
Lake	Center	79	46	33	79	46	33										71	40	31	8	6	2			
	Glencoe	72	40	32	72	40	32										64	34	30	8	6	2			

Marquette	Richmond	370	205	165	370	205	165	....	....	....	....	....	....	....	....	....	176	86	90	194	119	75	....	....	....
Mason	Branch	476	296	180	472	292	180	....	....	....	....	....	....	4	4	....	262	152	110	208	138	70	6	6	....
Roscommon	Denton	183	119	64	183	119	64	....	....	....	....	....	....	....	....	....	107	70	37	76	49	27	....	....	....
	Gerrish	251	193	58	251	193	58	....	....	....	....	....	....	....	....	....	138	94	44	113	99	14	....	....	....
	Nester	391	353	38	391	353	38	....	....	....	....	....	....	....	....	....	138	107	31	253	246	7	....	....	....
	Roscommon	161	104	57	161	104	57	....	....	....	....	....	....	....	....	....	110	66	44	50	38	12	1	....	1

[a] Organized since census was taken.

MARRIAGES, 1889.

There were 18,300 marriages returned for the year 1889. With every year there are fewer corrections to be made in the statistics of this class. In 1888 the number of marriages first returned and compiled was 17,233. By referring to the corrected table it will be seen that the number has been increased to 17,294, or that 61 marriages were sent in after the compilation was made. In previous years the additions have often been six and seven hundred, but under the new law the returns are becoming better every year. For 1889 there was one marriage consumated to every 101 persons, according to the census of 1884.

The average number of marriages for certain divisions of the year were as follows:

Year, 1889	18,300
Quarter	4,575
Month	1,525
Week	352
Day	50

By Table 30 the marriages for 1886 and 1889 inclusive are given by the quarter of the year. The last or fourth quarter in every case having the highest number.

TABLE 30.—*Marriages by quarters of the year for each of the years 1886–1889, and the average for ten years, 1878–1887. Corrected for additional returns up to April 19, 1890.*

Totals and months with which quarters end.	1886.		1887.		1888.		1889.		Average for 10 years, 1879–1888.	
	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
Totals	16,665	100.00	17,179	100.00	17,294	100.00	18,300	100.00	16,129	100.00
March	3,577	21.46	3,567	20.76	3,702	21.41	4,183	22.85	3,523	21.84
June	3,726	22.37	3,991	23.23	4,070	23.53	4,260	23.28	3,650	22.63
September	4,116	24.69	4,561	26.55	4,054	23.44	4,287	23.43	3,908	24.23
December	5,239	31.44	5,055	.....	5,461	31.57	5,567	30.42	5,043	31.27
Unknown	7	.04	5	.03	7	.04	3	.02	5	.03
Average[a]	4,166	25.00	4,295	25.00	4,323	25.00	4,575	25.00	4,032	25.00

[a] Including marriages in unknown quarter of the year.

Table 31 shows the number and proportion of marriages for each of the years 1886-1888, as first returned, tabulated and published, without the corrections for additional returns. A comparison of tables 30 and 31 will show the number of delinquent marriages which has been added to the number as first returned for each of the above years.

TABLE 31.—*Marriages by quarters of the year for each of the years ~~1885-1888~~, and the average for ten years, 1879-1888, as originally returned and published in reports.*

Totals and months with which quarters end.	1886.		1887.		1888.		1889.		Average for 10 years, 1879-1888.	
	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
Totals	16,631	100.00	17,050	100.00	17,233	100.00	18,300	100.00	15,575	100.00
March	3,572	21.48	3,563	20.90	3,701	21.48	4,183	22.85	3,467	22.26
June	3,718	22.36	3,979	23.34	4,067	23.60	4,260	23.28	3,580	22.99
September	4,111	24.72	4,549	26.68	4,049	23.49	4,287	23.43	3,802	24.41
December	5,223	31.40	4,954	29.05	5,409	31.39	5,567	30.42	4,721	30.31
Unknown	7	.04	5	.03	7	.04	3	.02	5	.03
Average [a]	4,158	25.00	4,263	25.00	4,308	25.00	4,575	25.00	3,894	25.00

[a] The number in unknown quarter of year included.

As noticed before, the last quarter of the year seems to be the favorite time for weddings. Table 32, which gives the marriages by months, with the months arranged according to the number of marriages, the highest number first, will amply show this to be true. In the ten years' average November shows the most marriages and February the least.

TABLE 32.—*Marriages by months, greatest first, for the years 1887–1889, and the average for ten years, 1879–1888, corrected for additional returns up to April 19, 1890.*

Order.	1887.			1888.			1889.			Average for 10 years, 1879–1888.		
	Months.	Number.	Per ct. of total.	Months.	Number.	Per ct. of total.	Months.	Number.	Per ct. of total.	Months.	Number.	Per ct. of total.
	Total..	17,179	100.00	Total..	17,294	100.00	Total..	18,300	100.00	Total..	16,129	100.00
1	Sept....	1,793	10.44	Nov....	1,834	10.61	Oct....	1,907	10.42	Nov....	1,714	10.63
2	Nov....	1,776	10.34	Oct....	1,824	10.55	Nov....	1,891	10.33	Oct....	1,669	10.35
3	Dec....	1,724	10.04	Dec....	1,803	10.43	Dec....	1,769	9.67	Dec....	1,660	10.29
4	Oct....	1,555	9.05	Sept...	1,582	9.15	Sept...	1,649	9.01	Sept....	1,483	9.20
5	Aug....	1,426	8.30	Apr....	1,511	8.73	May...	1,459	7.97	April..	1,273	7.89
6	May...	1,348	7.85	May...	1,315	7.60	Jan....	1,438	7.86	July...	1,270	7.87
7	July...	1,342	7.81	Jan....	1,280	7.40	Mar....	1,414	7.73	Jan....	1,223	7.58
8	Apr....	1,322	7.69	July...	1,254	7.25	June...	1,404	7.67	May...	1,219	7.56
9	June...	1,321	7.68	June..	1,244	7.20	April..	1,397	7.63	Mar....	1,204	7.46
10	Mar....	1,288	7.50	Mar....	1,218	7.04	July...	1,382	6.56	June...	1,158	7.18
11	Jan....	1,192	6.94	Aug....	1,218	7.04	Feb....	1,331	7.27	Aug....	1,155	7.16
12	Feb....	1,087	6.33	Feb....	1,204	6.96	Aug....	1,256	6.86	Feb....	1,096	6.80
	Unk....	5	.03	Unk...	7	.04	Unk....	3	.02	Unk...	5	.03
	Av. a...	1,431	8.33	Av. a...	1,436	8.33	Av. a...	1,525	8.33	Av. a...	1,344	8.33

a Includes those for unknown months.

TABLE 33.—*Distinguishing by counties and by months, the number of marriages returned for the year 1889.*

State and counties.	Year, 1889.	Months, 1889.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
State	18,300	1,438	1,331	1,414	1,397	1,459	1,404	1,382	1,256	1,649	1,907	1,891	1,769	3
Alcona	27	.....	1	2	4	1	1	3	1	2	4	3	5	....
Alger	6	.....	1	.....	.....	.....	1	.....	.....	2	1	.....	1	....
Allegan	318	14	24	35	28	32	16	18	21	27	37	28	38	....
Alpena	149	7	9	14	17	11	12	18	11	10	15	21	4	....
Antrim	75	8	7	.....	5	2	7	11	10	5	6	6	8	....
Arenac	40	1	2	4	4	5	2	5	1	4	5	3	4	....
Baraga	27	2	3	.....	3	1	4	.....	3	3	3	4	1	....
Barry	225	21	17	27	19	15	16	11	7	13	27	24	28	....
Bay	493	41	38	30	31	48	44	40	41	49	37	48	46	....
Benzie	44	4	3	3	4	4	6	2	4	3	5	2	4	....
Berrien	387	38	32	26	32	32	31	20	20	27	46	47	36	....
Branch	269	21	24	28	20	17	19	12	12	26	35	25	30	....
Calhoun	392	24	24	24	29	33	30	37	32	35	49	30	45	....
Cass	201	11	15	29	14	4	11	14	14	24	18	22	25	....
Charlevoix	79	2	7	8	4	3	6	9	7	10	5	7	11	....
Cheboygan	95	9	5	7	2	9	8	10	7	8	11	12	7	....
Chippewa	106	4	6	7	3	13	11	10	10	14	13	9	6	....
Clare	85	8	3	13	6	6	4	13	3	3	11	6	9	....
Clinton	215	18	20	13	14	14	10	15	17	12	26	32	24	....
Crawford	28	1	1	2	2	3	3	3	.....	6	3	2	2	....
Delta	163	14	8	16	5	21	16	17	13	10	16	15	12	....
Eaton	293	19	19	22	21	21	21	19	17	28	37	38	31	....
Emmet	88	6	3	7	4	5	8	8	10	9	10	7	11	....
Genesee	389	23	23	29	29	23	26	22	26	47	54	40	47	....
Gladwin	39	1	4	4	5	5	5	2	5	2	1	3	2	....
Gogebic	107	10	6	6	4	8	15	11	6	14	5	16	6	....
Grand Traverse	140	16	12	14	12	16	20	1	8	12	10	15	4	....
Gratiot	241	19	20	21	26	17	12	22	19	16	26	19	24	....
Hillsdale	286	31	19	30	21	15	14	17	24	24	24	37	30	....

TABLE 33.—CONTINUED.—*Marriages by counties, by months.*

State and counties.	Year, 1889.	Months, 1889.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Houghton	357	26	20	11	29	27	34	47	28	34	44	38	19	....
Huron	237	21	28	15	19	22	18	21	10	19	25	25	19	....
Ingham	347	36	17	37	23	25	24	16	25	35	39	41	29	....
Ionia	294	34	18	25	19	15	25	11	21	31	20	41	34	....
Iosco	135	13	4	16	8	7	18	10	17	6	10	13	13	....
Iron	40	3	2	1	3	3	8	3	3	2	4	6	2	....
Isabella	158	11	6	15	16	11	10	13	14	17	20	11	14	....
Jackson	380	28	44	31	23	16	23	38	23	33	41	36	44	....
Kalamazoo	402	39	25	33	35	26	29	34	32	34	48	33	34	....
Kalkaska	53	4	6	3	1	3	2	4	5	2	8	7	8	....
Kent	1,141	75	85	88	90	119	105	72	75	100	116	104	113	....
Keweenaw	15	2	1	.....	4	1	3	.....	2	.....	.....	2	.....	....
Lake	55	3	3	6	6	3	2	6	3	4	4	9	6	....
Lapeer	270	15	15	32	26	15	12	24	18	23	39	24	27	....
Leelanaw	64	14	4	6	9	4	.....	3	8	1	3	8	4	....
Lenawee	400	35	28	35	47	23	27	22	12	37	37	47	50	....
Livingston	182	10	13	14	16	12	12	14	8	17	29	19	18	....
Luce	42	3	4	5	2	5	4	2	3	2	4	6	2	....
Mackinac	56	4	3	5	3	2	8	6	7	2	5	10	1	....
Macomb	242	21	12	22	10	18	12	23	18	20	21	35	30	....
Manistee	212	10	13	14	22	19	14	12	29	23	22	19	15	....
Manitou	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
Marquette	375	30	19	16	23	25	47	40	31	37	33	39	35	....
Mason	163	14	9	14	13	8	6	23	13	16	16	12	19	....
Mecosta	223	20	13	14	29	12	20	22	16	21	16	18	22	....
Menominee	252	22	18	16	18	20	23	21	19	25	23	32	15	....
Midland	99	8	4	6	16	8	7	3	8	12	9	8	10	....
Missaukee	47	2	4	4	4	6	4	1	2	8	5	3	4	....
Monroe	307	33	21	20	23	42	29	17	11	29	34	30	18	....
Montcalm	312	18	20	49	34	21	19	26	14	33	35	13	31	....
Montmorency	14	2	1	2	1	1	1	1	2	.....	.....	.....	3	....
Muskegon	362	31	25	28	27	27	29	21	35	24	38	38	38	1
Newaygo	162	12	8	16	14	10	14	14	10	16	12	15	21	....
Oakland	319	27	32	35	37	18	14	13	18	27	23	35	40	....
Oceana	118	11	11	7	9	15	4	7	8	11	11	12	12	....
Ogemaw	49	3	1	1	.....	4	6	8	1	11	3	4	7	....

TABLE 33.—CONTINUED.—*Marriages by counties, by months.*

State and counties.	Year. 1889.	Months, 1889.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Ontonagon	17	2	1	.....	2	2	1	1	1	.....	2	2	3	....
Osceola	141	10	10	13	9	8	11	17	10	18	11	12	12	....
Oscoda	19	3	.....	.....	1	.....	2	2	2	.....	1	2	6	....
Otsego	39	2	5	.....	6	1	5	6	2	2	1	5	4	....
Ottawa	277	23	15	14	37	31	21	14	19	19	24	21	39	....
Presque Isle	26	4	1	.....	4	5	.....	1	.....	.....	4	4	3	....
Roscommon	18	3	2	2	.....	.....	1	1	1	3	.....	3	2	....
Saginaw	701	23	83	45	23	89	50	90	39	67	66	59	67	....
Sanilac	236	14	12	18	18	16	17	16	20	18	29	30	26	2
Schoolcraft	44	6	2	2	2	4	5	4	5	5	4	1	4	....
Shiawassee	289	23	27	17	19	16	17	26	18	17	32	33	44	....
St. Clair	465	42	29	28	31	48	39	26	24	44	60	51	43	....
St. Joseph	236	23	21	26	22	11	12	16	13	16	24	20	32	....
Tuscola	292	30	25	19	18	17	11	18	18	34	43	22	37	....
Van Buren	284	21	19	34	20	19	18	16	21	18	29	33	36	....
Washtenaw	286	25	20	19	19	31	25	27	23	21	26	31	19	....
Wayne	1,922	164	162	108	129	176	172	124	125	204	206	231	126	....
Wexford	116	7	8	11	10	8	5	9	17	7	8	17	9	....

TABLE 34.—*Exhibiting, by color and sex, the number of marriages and the per cent of persons married in 1889 to population in 1884.*

Color, 1889.	Sex.	Population June 1, 1884, represented by marriages in 1889.	Number of marriages, 1889.	Persons married, 1889.		Per cent of persons married in 1889 to population June 1, 1884, by sex and color.	Number of persons who married those of another color.
				Number.	Per cent of totals.		
All colors	Totals	1,853,658	18,300	36,600	100.00	1.98	74
	Males	974,424		18,300	50.00	1.88	37
	Females	879,028		18,300	50.00	2.08	37
	Unknown	206					
White	Totals	1,830,480	18,111	36,225	98.97	1.98	15
	Males	962,376		18,111	49.48	1.87	6
	Females	868,094		18,114	49.49	2.09	9
	Unknown	10					
Black	Totals	6,856	92	172	.47	2.51	16
	Males	3,692		92	.25	2.49	14
	Females	3,164		80	.22	2.53	2
Mulatto	Totals	8,267	47	101	.28	1.22	23
	Males	4,211		47	.13	1.12	8
	Females	4,056		54	.15	1.33	15
Indian	Totals	6,900	48	98	.27	1.42	20
	Males	3,574		48	.13	1.34	9
	Females	3,326		50	.14	1.50	11
One or both unknown	Totals	1,085	2	4		.37	—
	Males	501		2		.40	—
	Females	388		2		.52	—
	Unknown	196					—
Black and mulatto	Totals	15,123	139	273	.74	1.80	[illegible]
	Males	7,903		139	.38	.92	[illegible]
	Females	7,220		134	.36	.88	[illegible]

TABLE 35.—*Exhibiting for the State and counties, the number of marriages returned for the year 1889, and the color of persons married in 1888, stated by couples.*

State and counties.	Marriages, 1889.	Color of persons married, 1889, stated by couples.						
		White.	Black.	Mulatto.	Indian.	Female unk., male white.	Male unk., female white.	Both unk.
State	18,300	* 18,111	† 92	‡ 47	‖ 48			2
Alcona	27	27						
Alger	6	5			a 1			
Allegan	318	316	1		1			
Alpena	149	149						
Antrim	75	73			2			
Arenac	40	39			1			
Baraga	27	b 24			c d 3			
Barry	225	225						
Bay	493	490		2	1			
Benzie	44	43		e 1				
Berrien	387	375	4	f 8				
Branch	269	269						
Calhoun	392	385	g 3	3	1			
Cass	201	189	12					
Charlevoix	79	h 76			3			
Cheboygan	95	95						
Chippewa	106	103		i 1	j 2			
Clare	85	85						
Clinton	215	214		k 1				
Crawford	28	28						
Delta	163	156	1	1	5			
Eaton	293	293						
Emmet	88	m 81			l 7			
Genesee	389	386	2		n 1			

* 4 couples, male white, female Indian.
† 12 couples, male black, female mulatto.
‡ 5 couples, male mulatto, female white.
‖ 4 couples, male Indian, female half-breed.
a 1 couple, male white, female Indian.
b 1 couple, male Indian, female half-breed.
c 1 couple, male Indian, female half-breed.
d 1 couple, male half-breed, female Indian.
e 1 couple, male mulatto, female Indian.
f 1 couple, male mulatto, female creole.
g 1 couple, male black, female mulatto.
h 1 couple, male white, female mulatto.
i 1 couple, male mulatto, female white.
j 1 couple, male mulatto, female half-breed.
k 1 couple, male mulatto, female white.
l 1 couple, male Indian, female half-breed.
m 1 couple, male white, female Indian.
n 1 couple, male half-breed, female Indian.

TABLE 35.—CONTINUED—*Marriages in 1889, by counties, by color.*

Counties.	Marriages, 1889.	Color of persons married, 1889, stated by couples.						
		White.	Black.	Mulatto.	Indian.	Female unk., male white.	Male unk., female white.	Both unk.
Gladwin	89	87						2
Gogebic	107	107						
Grand Traverse	140	140						
Gratiot	241	240		1				
Hillsdale	286	286						
Houghton	357	357						
Huron	237	237						
Ingham	347	342	5					
Ionia	294	293	1					
Iosco	135	134		1				
Iron	40	40						
Isabella	158	153		1	o p 4			
Jackson	380	374	4	2				
Kalamazoo	402	396	3	3				
Kalkaska	53	53						
Kent	1,141	1,132	q 5	4				
Keweenaw	15	15						
Lake	55	55						
Lapeer	270	270						
Leelanaw	64	60			4			
Lenawee	400	396	r 3	1				
Livingston	182	181	1					
Luce	42	42						
Mackinac	56	s t 54			2			
Macomb	242	242						
Manistee	212	212						
Manitou	1	1						
Marquette	375	375						
Mason	163	160			3			
Mecosta	223	220	2		1			
Menominee	252	252						
Midland	99	99						
Missaukee	47	46			1			
Monroe	307	304	u v 3					

o 1 couple, male half-breed, female white.
p 1 couple, male Indian, female white.
q 3 couples, male black, female mulatto.
r 1 couple, male black, female mulatto.
s 2 couples, male white, female Indian.
t 1 couple, male indian, female white.
u 1 couple, male black, female mulatto.
v 1 couple, male black, female white.

TABLE 35.—CONTINUED—*Marriages in 1889, by counties, by color.*

Counties.	Marriages, 1889.	Color of persons married, 1889, stated by couples.						
		White.	Black.	Mulatto.	Indian.	Female unk., male white.	Male unk., female white.	Both unk.
Montcalm	312	312						
Montmorency	14	14						
Muskegon	362	362						
Newaygo	162	161			1			
Oakland	319	318		w 1				
Oceana	118	116			2			
Ogemaw	49	49						
Ontonagon	17	17						
Osceola	141	141						
Oscoda	19	19						
Otsego	39	39						
Ottawa	277	277						
Presque Isle	26	26						
Roscommon	18	18						
Saginaw	701	696	4		1			
Sanilac	236	236						
Schoolcraft	44	44						
Shiawassee	289	289						
St. Clair	465	465						
St. Joseph	236	234	2					
Tuscola	292	291	1					
Van Buren	284	278	1	5				
Washtenaw	286	279	7					
Wayne	1,922	z 1,883	y**27	x 11	1			
Wexford	116	116						

w 1 couple, male mulatto, female black.
x 2 couples, male mulatto female white.
y 1 couple, male black, female yellow.
z 1 couple, male white, female black.
** 4 couples, male black, female mulatto.

Table 36 shows the marriages in 1889 arranged according to nativity. We find that there were 11,983 native grooms to 13,948 native brides, and 6,303 foreign born grooms to 3,903 foreign born brides. Of the 18,300 couples married, the contracting parties were both native in 10,208 cases, and both were foreign in 2,473 cases. The percentages of the nativities can be seen by the table.

TABLE 36.—*By nativity, the number and per cent of brides and bridegrooms returned for the year 1889.*

Bridegrooms and brides,—Nativity specified.		Brides, 1889.			Bridegrooms, 1889.	
		Native born.	Foreign born.	Unknown.	Total of each nativity and of all nativities.	Per cent of each nativity.
Bridegrooms	Native born	10,208	1,430	345	11,983	76.22
	Foreign born	3,735	2,473	95	6,303	21.33
	Unknown	5	.....	9	14	2.45
Brides.	Whole number of each nativity and total	13,948	3,903	449	18,300	.....
	Per cent of each nativity and total	65.48	34.44	.08	.....	100.00

The marriage rates for the native and foreign born inhabitants to the whole population of the State may be learned from Table 37. The increase for 1889 in the number of marriages is more evenly divided between the native and foreign born inhabitants, than was the increase for 1888, when it nearly all came from the foreign born.

In order to learn the actual marriage rate, the number of marriages must be divided by the number of inhabitants at marriageable ages at the time of the occurrence of the marriages. The nearest approach to the actual marriage rate for 1889 is that based upon marriages in 1889 and the inhabitants in 1884 as is done in the tabular exhibit which follows Table 37. By this exhibit it appears that the marriage rate among the native born inhabitants in 1889, was slightly greater than among the foreign born, and that it is greatest among the native born females and least among the foreign born females.

TABLE 37.—*Exhibiting by sex, the nativity of persons married in Michigan in 1889, and the population in 1884.*

Nativity of persons married, 1889.	Marriages, 1889.		Population, June 1, 1884, represented by marriages, 1889.			Persons married, 1889.					
						Number.			Per cent of persons married in 1889 to population of same nativity, June, 1, 1884.		
	Number.	Per cent of total.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.
Totals	18,300	100.00	1,853,656	974,424	879,028	36,600	18,300	18,300	1.97	1.88	2.08
Native born	10,208	55.78	1,357,639	695,490	662,145	25,931	11,983	13,948	1.91	1.72	2.11
Foreign born	3,735	20.41	486,968	272,298	214,662	10,206	6,303	3,903	2.10	2.31	1.82
Foreign male and native female	2,473	13.51									
Foreign female and native male	1,430	7.82									
Nativity unknown	454	2.48	9,051	6,636	2,214	463	14	449	5.12	.21	20.28
One or both native	14,111	77.11									
One or both foreign	7,638	47.74									

Nativity.	Inhabitants June 1, 1884, aged 15 years and over.			Persons married, 1889.			Per cent of persons married in 1889 to inhabitants June 1, 1884, aged 15 years and over.		
	Both sexes.	Males.	Females.	Both sexes.	Males.	Females.	Both sexes.	Males.	Females.
All nativities	1,213,634	649,588	564,046	36,600	18,300	18,300	3.02	2.82	3.26
Native	782,620	403,790	378,830	25,931	11,983	13,948	3.31	2.97	3.68
Foreign	428,384	239,827	183,557	10,206	6,303	3,903	2.41	2.62	2.13

Table 38 gives the percentages with relation to nativity of persons married in this State for the last fourteen years. The per cent of the native born is higher for 1889 than it was for 1888, but is still considerable below the average for ten years. It will be noticed that the per cents in this class have, on the whole, been growing lower every year since 1879, while the per cent of the foreign born have been increasing. In the class of native born groom and foreign born bride, the present year shows a decided increase, and the foreign born groom and native born bride as much of a decrease.

TABLE 38.—*Per cent of marriages, by nativity, in Michigan for fourteen years, 1876-1889, and the average for these years.*

Years.	Both native born.	Both foreign born.	Native born groom and foreign born bride.	Foreign born groom and native born bride.	Unknown.
1876	62.44	15.02	7.01	13.26	2.27
1877	63.33	14.31	7.18	13.05	2.13
1878	63.83	12.68	7.72	13.48	2.29
1879	64.15	12.78	7.40	13.56	2.11
1880	62.17	15.20	7.48	13.02	2.13
1881	59.30	18.00	8.18	12.75	1.77
1882	58.15	19.61	8.72	12.47	1.05
1883	57.19	20.60	8.65	12.27	1.29
1884	57.28	20.32	9.00	12.11	1.29
1885	59.14	18.65	8.90	12.13	1.18
1886	58.50	18.71	8.76	12.79	1.24
1887	56.65	20.22	8.47	13.10	1.56
1888	54.97	21.46	7.83	13.49	2.25
1889	55.78	20.41	13.51	7.82	2.48
Average	69.40	20.66	9.90	14.61	2.08

AGES OF PERSONS MARRIED.

Table 39 gives the average age, at time of marriage, of both males and females for all nativities, for the native and foreign born and also for those of unknown nativities.

TABLE 39.—*By nativity, the average age of persons married in Michigan in 1886-1889, and the average for the ten years 1879-1888.*

Nativity of persons married.	1886.		1887.		1888.		1889.		Average age for 10 years, 1879-1888.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
All nativities	28.26	23.35	28.60	23.57	29.20	24.43	28.24	23.45	28.34	23.43
Native	27.78	22.85	28.17	23.17	28.07	23.00	27.86	22.89	27.79	22.91
Foreign	29.28	24.63	29.40	24.54	29.29	24.81	29.00	24.52	29.31	24.48
Unknown	28.44	24.26	29.85	23.69	30.25	25.49	26.29	25.75	29.59	24.14

The marriages in 1889 by sex and periods of age, and the number and proportion of persons married are shown in table 40. The proportion of males married under 20 years of age shows a slight increase for the present year, being 1.87, while for 1888 it was 1.80 The females in 1889 gave a per cent of 32.79 for 31.82 in 1888.

The total number of persons married under 21 may also be seen in this table, while it is more than for 1888, it is about the average for the total number of marriages. According to the marriage laws of Michigan, only males who have attained the full age of 18 years and females the full age of 16 years, are capable of contracting marriage. It is

certainly gratifying to note the fact that in 1889 no males were married under the legal age and but 19 females, 18 at fifteen, and 1 at twelve.

The penalty for solemnizing an illegal marriage is a fine not exceeding five hundred dollars. Convictions under this law are seldon, if ever, heard of, though every year there are several marriages returned where one or both of the parties were not of legal age, perhaps it is because no one interested in the persons contracting the marriage cared to interfere.

TABLE 40.—*Exhibiting, by sex, and by periods of age, the number and per cent of persons married during the year 1889.*

Ages in years and periods.	Marriages, 1889.						
	Total number of persons married 1889.	Males.			Females.		
		Number married.	Per cent of total married.	Per cent of persons married at corresponding ages.	Number married.	Per cent of total married.	Per cent of persons married at corresponding ages.
All ages	36,600	18,300	100.00	50.00	18,300	100.00	50.00
12	1				1		
13							
14							
15	18				18	.10	100.00
16	835				835	4.57	100.00
17	1,145				1,145	6.25	100.00
18	2,103	97	.53	4.61	2,006	10.96	95.39
19	2,243	246	1.34	10.97	1,997	10.92	89.03
20	2,493	608	3.32	24.39	1,885	10.30	75.61
21 to 25	11,821	6,347	34.68	53.69	5,474	29.91	46.31
25 to 30	8,565	6,000	32.80	70.01	2,565	14.02	29.99
30 to 35	3,174	2,241	12.25	70.60	933	5.10	29.40
35 to 40	1,501	1,012	5.53	67.42	489	2.67	32.58
40 to 45	922	587	3.21	63.67	335	1.83	36.33
45 to 50	615	384	2.09	62.44	231	1.26	37.56
50 to 55	392	243	1.33	61.99	149	.82	38.01
55 to 60	286	183	1.00	63.99	103	.56	36.01
60 to 65	225	152	.83	67.56	73	.40	32.44
65 to 70	146	117	.64	80.14	29	.16	19.86
70 to 75	63	52	.28	82.54	11	.06	17.46
75 to 80	27	25	.13	92.59	2	.01	7.41
80 and over	3	3	.02	100.00			
Unknown ages	22	3	.02	13.64	19	.10	86.36
Under 15	1				1		
15 to 20	6,344	343	1.87	5.41	6,001	32.79	94.59
20 to 25	14,314	6,955	38.01	48.59	7,359	40.21	57.41

TABLE 41.—*Exhibiting for the State and counties, by sex, the nativity and age in periods of years, of persons married in Michigan during the year 1889.*

State and counties.	Number of couples married, 1889.	Nativity of persons married 1889, stated by couples.									Sex stated.	Marriages at different ages, stated in periods of years, 1889.														
		Both native born.	Both foreign born.	Foreign males, native females.	Foreign females, native males.	Females unknown. Males. Native.	Females unknown. Males. Foreign.	Males unknown. Females. Native.	Males unknown. Females. Foreign.	Both unknown.		Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Both unknown.
State	18,300	10,208	3,735	2,473	1,430	345	95	9		5	Totals	6,345	14,314	8,565	3,174	1,501	922	615	392	286	225	146	63	27	3	22
											Males	343	6,955	6,000	2,241	1,012	587	384	243	183	152	117	52	25	3	3
											Females	6,002	7,359	2,565	933	489	335	231	149	103	73	29	11	2		19
Alcona	27	7	9	6	5						Males		13	9	2		1	1		1						
											Females	17	6		3		1									
Alger	6	2	3	1							Males		3	1	1	1										
											Females	3	1	2												
Allegan	318	254	16	27	18	2	1				Males	5	121	90	46	21	13	3	5	6	6	1	1			
											Females	105	125	37	19	13	3	6	5	2	2	1				
Alpena	149	31	76	29	13						Males		44	64	16	13	5	2	5							
											Females	54	49	28	9	5	1	2	1							
Antrim	75	39	14	11	10	1					Males		29	27	9	3	3	1	2		1					
											Females	35	24	10	1		1	1	3							
Arenac	40	13	15	10	1	1					Males		19	10	4	3	1	2		1						
											Females	20	14	3	2	1										
Baraga	27	8	8	6	2	2		1			Males		11	7	8	1										
											Females	6	16	2	2	1										

Barry	325	183	3	20	7	9	2	1			Males	4	86	73	20	11	7	6	2	5	6	3		2		
											Females	69	75	36	19	7	2	3	5	6			1	1		
Bay	493	168	153	112	59		1				Males	8	179	171	63	26	13	16	5	8	3		1			
											Females	171	197	62	21	18	13	4	5	1	1					
Benzie	44	21	11	9	2						Males		19	15	7	2		1								
											Females	21	14	4	3	1		1								
Berrien	387	305	16	26	23	15				2	Males	6	155	129	34	23	10	10	7	7	1	5				
											Females	115	176	47	17	9	7	9	3	2	1	1				
Branch	269	246	1	10	4	7				1	Males	13	105	73	26	8	14	6	6	4	4	8	2			
											Females	92	92	37	14	13	3	5	7	2	1	1	1			1
Calhoun	392	290	25	31	22	22	1	1			Males	8	146	126	52	22	9	9	6	5	4	3	2			
											Females	105	167	62	21	17	8	2	5		4	1				
Cass	201	180	3	8	3	6	1				Males	9	88	57	17	5	6	3	4	2	7	1	2			
											Females	72	89	13	6	3	5	5	2	2	3	1				
Charlevoix	79	40	14	15	9	1					Males		32	30	8	5	1		2		1					
											Females	32	31	7	6	1	1		1							
Cheboygan	95	30	28	20	10	5	2				Males	2	25	39	15	4	2	5	2	1						
											Females	33	37	10	7	2	2	2	1		1					
Chippewa	106	8	66	15	15		2				Males		34	39	19	5	4	2	2		1					
											Females	34	46	17	5	2	1				1					
Clare	85	33	14	22	12	3	1				Males	1	36	23	14	5	4	1				1				
											Females	44	21	9	3	3	4			1						
Clinton	215	167	1	12	15	16	3	1			Males	5	77	76	28	7	7	6	2	2		3	1	1		
											Females	72	95	27	8	3	5	1	2	2						
Crawford	28	7	9	11		1					Males		7	10	6	3	2									
											Females	13	8	4	2		1									
Delta	163	39	77	32	15						Males	2	54	56	31	12	1	3	1	3						
											Females	52	64	34	6	3	2	1	1							

TABLE 41.—CONTINUED.—*Marriages by counties, nativity, and periods of age.*

Counties.	Number of couples married, 1889.	Nativity of persons married 1889, stated by couples.									Sex stated.	Marriages at different ages, stated in periods of years, 1889.														
		Both native born.	Both foreign born.	Foreign males, native females.	Foreign females, native males.	Females unknown. Males. Native.	Females unknown. Males. Foreign.	Males unknown. Females. Native.	Males unknown. Females. Foreign.	Both unknown.		Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Both unknown.
Eaton	293	273	1	12	7						Males	11	138	52	41	18	9	4	5	4	5	3	1	2		
											Females	109	98	44	14	10	8	3	2	2	1	2				
Emmet	88	59	8	14	5	2					Males	2	33	32	13	8	2			1		1	1			
											Females	40	34	5	5	1	1	1			1					
Genesee	389	299	17	39	32	1	1				Males	7	175	99	34	23	18	13	5	3	3	4	4	1		
											Females	130	147	50	20	15	11	7	2	4	1	1				1
Gladwin	39	12	11	8	7	1					Males	1	15	15	3	3	1		1							
											Females	21	10	5	2	1										
Gogebic	107	15	72	8	11			1			Males		35	47	20	5										
											Females	27	59	13	6	2										
Grand Traverse	140	73	27	19	9	10	2				Males	2	34	53	24	9	4	7	3	2		1	1			
											Females	35	62	22	6	3	5	3		2	2					
Gratiot	241	201	4	19	17						Males	7	104	70	23	10	7	3	4	2	2	7	1	1		
											Females	114	76	21	7	2	6	6	3	1	3	1	1			
Hillsdale	286	257	5	11	3	10					Males	6	123	89	26	14	7	3	5	5	5	2	1			
											Females	104	105	41	14	7	2	3	3	4	2	1				
Houghton	357	62	196	76	22	1					Males		132	154	42	15	7	4	2		1					
											Females	102	161	68	14	5	5	1								1

Huron	237	51	92	62	28	2	2				Males	2	78	98	25	19	4	2	5	3			1			
											Females	97	98	25	7	2	1	3	3	1						
Ingham	347	276	18	15	18	17	3				Males	9	157	84	30	19	20	6	6	2	3	4	4	3		
											Females	110	124	47	25	6	9	2	4	5	2	2	1			
Ionia	294	243	10	21	13	4	3				Males	9	117	80	35	17	7	9	5	7	5	1	2			
											Females	113	94	35	20	9	6	9	4	2	2					
Iosco	135	29	64	21	21						Males	2	39	57	23	6	4	1	1		2					
											Females	42	59	21		4	1	2	1							
Iron	40	4	26	8	2						Males		14	13	6	4	3									
											Females	6	21	9	1	3										
Isabella	158	102	18	21	13	3	1				Males	3	62	57	12	11	3	4	2	1	1	1		1		
											Females	78	50	14	4	1	7	1		1		1	1			
Jackson	360	292	16	40	21	8	3				Males	8	153	109	42	18	16	7	7	8	4	3	3	2		
											Females	123	152	51	17	8	13	5	3	3	4	1				
Kalamazoo	402	288	50	31	26	4	3				Males	6	148	132	48	30	10	6	6	7	3	5		1		
											Females	96	185	61	25	10	6	7	5	4	1	1	1			
Kalkaska	53	36		4	4	4					Males		31	9	5	3	2	1		1	1					
											Females	26	18	1	3		2	1	1	1						
Kent	1,141	588	285	166	94	5	3				Males	30	424	362	137	64	45	33	13	11	7	9	3	1	2	
											Females	338	461	182	63	36	22	16	8	8	6			1		
Keweenaw	15	4	10								Males	1	8	6												
											Females	9	4	1	1											
Lake	55	27	6		6	8		1			Males	2	17	21	9	2	3		1							
											Females	25	18	6	2	3		1								
Lapeer	270	164	28	44	33		1				Males	6	106	73	31	13	14	6	3	4	4	2	3	5		
											Females	92	100	39	9	7	5	5	5	2	2	4				
Leelanaw	64	35	11	12	6						Males	1	29	23	3	5	1		1	1						
											Females	30	22	5	2	4	1									

TABLE 41.—CONTINUED.—*Marriages by counties, nativity, and periods of age.*

Counties.	Number of couples married, 1889.	Nativity of persons married 1889, stated by couples.									Sex stated.	Marriages at different ages, stated in periods of years, 1889.														
		Both native born.	Both foreign born.	Foreign males, native females.	Foreign females, native males.	Females unknown. Males. Native.	Females unknown. Males. Foreign.	Males unknown. Females. Native.	Males unknown. Females. Foreign.	Both unknown.		Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Both unknown.
Lenawee	400	306	16	28	26	21	2	1			Males	9	174	122	35	19	15	7	10	3	5	1				
											Females	118	178	53	16	10	9	8	3	2	1					2
Livingston	182	155	5	17	5						Males	5	74	53	24	6	8	3	2	2	1	3	1			
											Females	64	72	23	7	3	5	3		2	1	1	1			
Luce	42	1	30	6	5						Males		15	20	6	1										
											Females	12	18	7	4	1										
Mackinac	56	17	17	15	7						Males		13	24	11	3	3	1	1							
											Females	20	18	11	5			2								
Macomb	242	153	27	40	22						Males	5	112	69	16	11	7	9	5	4	3	1				
											Females	67	109	28	16	7	4	3	4	1	2	1				
Manistee	212	56	114	33	9						Males		62	81	34	17	11	4	2	1						
											Females	72	90	27	13	4	3	2			1					
Manitou	1			1							Males		1													
											Females		1													
Marquette	375	68	261	29	17						Males	4	142	143	50	24	5	2	3		1	1				
											Females	100	164	69	24	6	6	3	1		2					
Mason	163	58	69	25	11						Males	2	60	58	30	8	3			2						
											Females	67	58	25	7	4		1		1						

Mecosta	223	127	38	34	19	4	1				Males	4	93	57	33	19	4	6		5	1		1			
											Females	85	85	23	11	11	2	3	1	2						
Menominee	252	83	161	39	10	1	8				Males	1	76	114	34	9	13	1	2	2						
											Females	97	90	41	11	9	3	1								
Midland	99	40	15	16	12	14	2				Males	3	41	30	8	9	2	5	1							
											Females	50	28	12	3	4	1									1
Missaukee	47	20	14	10	3						Males		18	14	6	2	3	2		1		1				
											Females	19	14	7	2	1	2	1		1						
Monroe	307	256	13	15	15	8					Males	9	120	105	35	15	6	6	1		6	4				
											Females	98	113	56	13	11	6	4	2	3	1					
Montcalm	312	205	35	30	27	12	3				Males	9	114	95	46	15	9	9	4	4	3	3			1	
											Females	122	108	37	15	10	5	7	3	3	2					
Montmorency	14	6	2	3	3						Males	1	6	5	1		1									
											Females	7	4	3												
Muskegon	362	134	131	58	32	5	2				Males	9	124	109	58	25	12	11	4	2	4	2	2			
											Females	115	144	49	14	12	9	9	6	1	1	1				1
Newaygo	162	108	20	19	10	5					Males	7	64	48	16	10	5	2	5		4		1			
											Females	81	51	11	6	3	3	4	2	1						
Oakland	319	251	16	31	20	1					Males	7	130	93	43	15	7	9	6	2	3		2	2		
											Females	98	139	43	16	7	6	2	2	4	1	1				
Oceana	118	81	6	18	12	1					Males	4	48	32	14	5	2	3	2	2	3	3				
											Females	44	38	17	3	7	1	1	2	3	2					
Ogemaw	49	22	10	10	6	1					Males		21	14	6	4	1		1		1	1				
											Females	25	13	6	2		1	1			1					
Ontonagon	17	12	1	4							Males		5	9	2	1										
											Females	3	8	5	1											
Osceola	141	66	23	32	13	4	2				Males	3	65	42	8	10	6	1	4		2					
											Females	56	53	17	4	3	5	3								

TABLE 41.—CONTINUED.—*Marriages by counties, nativity and periods of age.*

Counties.	Number of couples married, 1889.	Nativity of persons married 1889, stated by couples.									Sex stated.	Marriages at different ages, stated in periods of years, 1889.														
		Both native born.	Both foreign born.	Foreign males, native females.	Foreign females, native males.	Females unknown. Males. Native.	Females unknown. Males. Foreign.	Males unknown. Females. Native.	Males unknown. Females. Foreign.	Both unknown.		Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Both unknown.
Oscoda	19	7	2	7	3						Males		11	6	1	1										
											Females	13	6													
Otsego	39	14	6	6	5	7	1				Males	2	12	17	3	2	1		1	1						
											Females	22	12	3		1		1								
Ottawa	277	159	57	39	17	4	1				Males	11	96	97	32	12	8	7	1	4	4	4	1			
											Females	94	113	34	9	6	8	4	4	1	1	2	1			
Presque Isle	26	5	13	7	1						Males		10	9	2	3		1		1						
											Females	15	9			1	1									
Roscommon	18	9	6	1	2						Males		10	4	1	1	1		1							
											Females	9	4		2		2	1								
Saginaw	701	347	135	140	76	2	1				Males	10	250	257	84	39	25	20	5	6	3	1				1
											Females	213	309	104	31	16	11	9	3		4					1
Sanilac	236	65	70	63	30	4	4				Males	2	80	89	31	10	4	8	5	2	2	1	1	1		
											Females	92	85	29	11	5	3	3	3	1	2		1			1
Schoolcraft	44	16	18	5	4	1					Males		13	23	5	2	1									
											Females	13	25	4	2											
Shiawassee	289	221	15	27	21	4	1				Males	4	111	87	42	11	10	6	4	4	6	2	1			1
											Females	94	122	30	18	3	6	3	4	4	2		1			2

St. Clair	465	192	82	102	46	23	20	.....	.....	.....	Males	7	167	166	53	28	19	8	5	3	5	3	.....	1	..	..
											Females	126	221	63	22	15	4	4	4	3	1	1	.....	.....	..	1
St. Joseph	236	202	5	14	5	10	.....	.....	.....	.....	Males	6	101	65	24	19	10	2	4	1	2	2	.....	.....	..	..
											Females	86	88	29	16	8	6	1	1	.....	1	.....	.....	.....	..	..
Tuscola	292	155	32	55	33	12	4	.....	.....	1	Males	9	124	83	33	18	11	2	5	4	2	.....	1	.....	..	1
											Females	118	122	17	15	2	6	6	3	2	.....	.....	.....	.....	..	1
Van Buren	284	241	4	14	10	13	2	.....	.....	.....	Males	9	108	82	26	12	7	7	2	6	2	7	5	1	..	..
											Females	110	99	30	16	8	8	3	2	3	3	1	1	.....	..	..
Washtenaw	236	176	32	42	22	11	1	2	.....	.....	Males	2	86	108	35	22	13	4	10	3	1	2	.....	.....	..	..
											Females	55	115	66	23	11	7	1	4	3	1	.....	.....	.....	..	..
Wayne	1,922	701	662	332	216	6	4	.....	.....	1	Males	19	709	664	264	108	60	49	21	11	8	7	2	.....	..	..
											Females	449	874	350	124	53	29	19	10	4	2	2	.....	.....	..	6
Wexford	116	62	30	13	11	.....	.....	.....	.....	.....	Males	2	34	47	21	5	4	3	.....	.....	.....	.....	.....	.....	..	..
											Females	41	44	19	5	6	1	.....	.....	.....	.....	.....	.....	.....	..	..

Table 42 gives the manner of union by ages. The last column but one shows the number of males married at certain ages, and the last gives the per cent of each. The two rows of figures at the bottom of the table show the number of females at the corresponding ages, and the per cents for the same. It will be seen that 343 males under 20 were married during the year, and 6,002 females of the same age during the same time. As usual, the ages for which there were the most marriages was from 20 to 25 when there were, 3,445. For 1888, for the same ages, there were 3,120.

TABLE 42—*Exhibiting the number of each sex, at each period of age, married during the year 1889, and the per cent of brides and of bridegrooms at each period of age to total at all ages.*

Age of males, 1889.	Age of females, 1889.															Total Males.	Per cent of grooms at each age.
	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.		
Under 20	273	60	9	1	....	....	....	....	....	....	....	....	....	....	....	343	1.87
20 to 25	3,445	3,125	333	41	4	1	....	....	1	....	....	....	....	....	5	6,955	38.01
25 to 30	1,753	2,838	1,171	180	36	13	3	1	....	....	....	....	1	....	4	6,000	32.79
30 to 35	389	895	581	272	66	28	7	....	1	....	....	....	....	....	2	2,241	12.24
35 to 40	88	286	253	181	141	44	16	2	....	....	....	....	....	....	1	1,012	5.53
40 to 45	38	97	126	124	88	77	25	9	1	1	....	....	....	....	1	587	3.21
45 to 50	7	40	51	74	70	68	51	19	1	2	....	....	....	....	1	384	2.10
50 to 55	5	10	30	35	46	38	40	29	7	2	....	....	....	....	1	243	1.33
55 to 60	4	5	2	10	26	35	46	33	16	6	....	....	....	....	....	183	1.00
60 to 65	....	2	7	9	6	18	27	28	29	23	3	....	....	....	....	152	.83
65 to 70	....	1	2	3	3	13	10	16	26	22	15	6	....	....	....	117	.63
70 to 75	....	....	....	2	2	....	4	10	12	12	6	2	1	....	1	52	.28
75 to 80	....	....	....	1	1	....	2	2	8	3	5	3	....	....	....	25	.14
80 and over	....	....	....	....	....	....	....	....	1	2	....	....	....	....	....	3	.02
Unknown	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	3	.02
Total females	6,002	7,359	2,565	933	489	335	231	149	103	73	29	11	2	....	19	18,300	....
Per cent of brides at each age	32.80	40.21	14.02	5.10	2.68	1.83	1.26	.81	.56	.40	.16	.06	.01	....	.10	....	100.00

TABLE 43.—*Exhibiting, by counties, the number of marriages in Michigan for the years 1887–1888, and 1889; the number as first returned, and the number returned since first compilation for the years 1887 and 1888; the number of inhabitants in 1884, and the per cent of marriages in 1889 to population in 1884.*

State and counties.	Marriages.							Population 1884, represented by marriages in 1889.	Number of inhabitants in 1884 to one marriage in 1889.	Per cent of marriages in 1889 to population in 1884.
	1887.			1888.			1889.			
	Number as first returned and compiled.	Number returned since first compilation.	Number returned previous to June, 1889.	Number as first returned and compiled.	Number returned since first compilation.	Number returned previous to June, 1889.	Number returned.			
State	17,050	129	17,179	17,233	61	17,294	18,300	1,853,658	101	.99
Alcona	26	.....	26	25	.....	25	27	4,028	149	.67
Alger	3	1	4	9	.....	9	6	a	.....	.....
Allegan	339	1	340	319	.....	319	318	38,666	122	.82
Alpena	164	.....	164	137	.....	137	149	12,683	85	1.17
Antrim	68	.....	68	78	.....	78	75	8,761	117	.86
Arenac	32	2	34	32	.....	32	40	4,027	101	.99
Baraga	15	.....	15	28	.....	28	27	3,039	113	.89
Barry	169	.....	169	206	.....	206	225	24,102	107	.93
Bay	334	4	338	447	.....	447	493	51,221	104	.96
Benzie	31	.....	31	25	.....	25	44	4,389	100	1.00
Berrien	543	2	545	376	.....	376	387	37,776	98	1.02
Branch	273	.....	273	242	.....	242	269	27,661	103	.97
Calhoun	349	.....	349	323	.....	323	392	41,585	106	.94
Cass	215	.....	215	172	1	173	201	21,202	105	.95
Charlevoix	74	.....	74	88	.....	88	79	9,275	117	.85
Cheboygan	79	.....	79	93	2	95	95	9,946	105	.96
Chippewa	96	.....	96	106	.....	106	106	8,422	79	1.26
Clare	58	.....	58	68	.....	68	85	5,549	65	1.53
Clinton	210	.....	210	229	.....	229	215	27,135	126	.79
Crawford	25	.....	25	30	.....	30	28	2,389	85	1.17
Delta	127	1	128	149	.....	149	163	9,992	61	1.63
Eaton	269	.....	269	266	.....	266	293	31,802	109	.92
Emmet	53	.....	53	72	.....	72	88	7,944	90	1.11
Genesee	338	.....	338	326	.....	326	389	38,776	100	1.00
Gladwin	23	.....	23	18	.....	18	39	1,539	39	2.53

[a] Organized since census was taken.

TABLE 43.—CONTINUED.—*Marriages, corrected by counties.*

Counties.	Marriages.							Population 1884, represented by marriages in 1889.	Number of inhabitants in 1884 to one marriage in 1889.	Per cent of marriages in 1889 to population in 1884.
	1887.			1888.			1889.			
	Number as first returned and compiled.	Number returned since first compilation.	Number returned previous to June, 1889.	Number as first returned and compiled.	Number returned since first compilation.	Number returned previous to June, 1889.	Number returned.			
Gogebic	99	.....	99	121	.....	121	107	a	.....	.....
Grand Traverse	125	2	127	120	.....	120	140	12,092	86	1.16
Gratiot	214	.....	214	238	.....	238	241	25,049	104	.96
Hillsdale	349	.....	349	283	.....	283	286	31,686	111	.90
Houghton	257	.....	257	331	.....	331	357	26,146	73	1.37
Huron	156	1	157	169	.....	169	237	24,521	103	.97
Ingham	338	6	344	334	.....	334	347	34,939	101	.99
Ionia	282	2	284	272	3	275	294	32,559	111	.90
Iosco	139	2	141	123	4	127	135	10,602	79	1.27
Iron	13	.....	13	36	.....	36	40	a	.....	.....
Isabella	154	1	155	146	.....	146	158	16,011	101	.99
Jackson	302	.....	302	337	.....	337	380	45,232	119	.84
Kalamazoo	416	4	420	374	2	376	402	35,281	88	1.14
Kalkaska	44	.....	44	52	.....	52	53	4,493	85	1.18
Kent	919	.....	919	1,048	.....	1,048	1,141	84,600	74	1.35
Keweenaw	9	.....	9	14	.....	14	15	4,667	311	.32
Lake	40	1	41	69	1	70	55	7,539	137	.73
Lapeer	211	.....	211	247	.....	247	270	30,057	111	.90
Leelanaw	39	.....	39	58	.....	58	64	7,128	111	.90
Lenawee	463	2	465	349	.....	349	400	49,584	124	.91
Livingston	168	4	172	167	.....	167	182	21.568	119	.84
Luce	6	3	9	26	.....	26	42	a	.....	.....
Mackinac	51	.....	51	64	.....	64	56	5,171	92	1.08
Macomb	213	.....	213	251	1	252	242	31,293	129	.77
Manistee	196	1	197	222	5	227	212	19,875	94	1.07
Manitou	5	.....	5	.....	.....	.....	1	1,198	1,198	.08
Marquette	329	3	332	345	3	348	375	31,397	84	1.19
Mason	114	.....	114	127	.....	127	163	13,221	81	1.23
Mecosta	157	.....	157	190	.....	190	223	20,597	92	1.08
Menominee	244	19	263	243	.....	243	252	19,120	76	1.32
Midland	69	.....	69	76	.....	76	99	8,776	89	1.13
Missaukee	22	.....	22	38	.....	38	47	3,386	72	1.39
Monroe	318	4	322	300	9	309	307	33,353	109	.92

a Organized since census was taken.

TABLE 43.—CONTINUED.—*Marriages, corrected by counties.*

Counties.	Marriages.							Population 1884, represented by marriages in 1889.	Number of inhabitants in 1884 to one marriage in 1889.	Per cent of marriages in 1889 to population in 1884.
	1887.			1888.			1889.			
	Number as first returned and compiled.	Number returned since first compilation.	Number returned previous to June, 1889.	Number as first returned and compiled.	Number returned since first compilation.	Number returned previous to June, 1889.	Number returned.			
Montcalm	249	5	254	264	.....	264	312	35,356	113	.88
Montgomery	6	.....	6	16	.....	16	14	845	60	1.66
Muskegon	364	1	365	427	.....	427	362	37,554	104	.96
Newaygo	140	.....	140	168	.....	168	162	18,996	117	.85
Oakland	325	3	328	320	.....	320	319	41,100	129	.78
Oceana	122	.....	122	135	5	140	118	14,519	123	.81
Ogemaw	38	.....	38	52	2	54	49	3,637	74	1.35
Ontonagon	24	.....	24	13	.....	13	17	4,836	284	.35
Osceola	142	.....	142	128	.....	128	141	14,001	99	1.01
Oscoda	25	2	27	18	.....	18	19	1,374	72	1.38
Otsego	23	.....	23	44	.....	44	39	3,906	100	1.00
Ottawa	298	1	299	229	.....	229	277	36,225	131	.76
Presque Isle	40	.....	40	32	.....	32	26	4,064	156	.64
Roscommon	12	.....	12	17	.....	17	18	2,588	144	.70
Saginaw	636	.....	636	635	.....	635	701	74,795	107	.94
Sanilac	201	.....	201	224	.....	224	236	29,583	125	.80
Schoolcraft	46	.....	46	53	.....	53	44	3,846	87	1.14
Shiawassee	231	2	233	276	1	277	289	28,078	97	1.03
St. Clair	466	.....	466	445	.....	445	465	46,783	101	.99
St. Joseph	271	.....	271	201	.....	201	236	26,277	111	.90
Tuscola	276	3	279	233	18	251	292	30,726	105	.95
Van Buren	274	.....	274	274	.....	274	284	30,341	107	.94
Washtenaw	332	25	357	312	.....	312	286	41,694	146	.69
Wayne	2,009	21	2,030	1,967	.....	1,967	1,922	188,966	98	1.02
Wexford	126	.....	126	116	4	120	116	10,518	91	1.10

DIVORCES IN MICHIGAN.

In the following tabular exhibit, which was published in the report for 1887, may be seen the number of marriages in Michigan, the number of divorces and the ratio of divorces to marriages, for the years 1871-1886. These statistics of divorces in Michigan are taken from the Report of the Commissioner of Labor, Carroll D. Wright, made to Congress in February, 1889.

Years.	Number of marriages.	Number of divorces.	Ratio of divorces to marriages.
1871	10,181	630	1 to 16.1
1872	9,882	620	1 to 15.9
1873	10,572	705	1 to 15.0
1874	11,041	794	1 to 13.9
1875	11,055	864	1 to 12.8
1876	10,558	800	1 to 13.6
1877	11,009	927	1 to 11.9
1878	12,221	993	1 to 12.3
1879	13,225	1,110	1 to 11.9
1880	14,149	1,149	1 to 12.3
1881	14,847	1,313	1 to 11.3
1882	16,178	1,335	1 to 12.1
1883	16,420	1,383	1 to 11.9
1884	15,002	1,239	1 to 12.1
1885	15,016	1,227	1 to 12.2
1886	16,631	1,339	1 to 12.4
1887	17,050		
Average	13,255	1,027	1 to 12.9

The above statistics concerning the number of divorces in Michigan show the remarkable fact that one divorce is granted in this State to about twelve marriages solemnized. The increase has been rapid and constant, the number running from 449 in 1867 to 1,339 in 1886. As the tendency of later legislation in this State seems rather to restrict than to extend the facilities for securing divorce, this growth can hardly be accounted for in this way. The increase in divorces is very much greater than the increase in population, as may be seen from the following figures taken from the report above referred to.

The increase in the population of the United States between the census years 1870 to 1880 was 30.1 per cent, while the divorces for the same time increased 79.4 per cent. [illegible] our own State the increase in population between the above years was 38.2 per cent, [illegible] the percentage of increase in the number of divorces was 107.4 per cent. These [illegible]tunities for instructive study in the subject of social science.

DEATHS, 1889.

The total number of deaths recorded and returned for 1889 was 20,315, a less number than was returned for 1888, which was 21,764, but which was the greatest number ever registered in the history of the State. This does not show that the mortality is increasing, but rather that the registration is becoming more accurate. The statement following shows the number of deaths as returned and the number added for corrections, after the system used in the United States census reports, which is the same as was mentioned in the statistics concerning births.

	Inhabitants in 1884, represented by deaths in 1889.	Deaths as returned.	Deaths corrected for omissions in enumerating.	Per cent of deaths to inhabitants.	
				Deaths as returned.	Deaths as corrected for omissions.
Totals	1,846,845	20,315	27,461	1.09	1.49

By referring to the above table it will be seen that the corrected per cent of deaths to inhabitants is 1.49, or 14.9 for every 1,000. This is much lower than in other states having a system of registration. In Massachusetts the death rate for 1889 was 19.21 to every 1,000 of the estimated population. In New Hampshire the death rate is above 18 per thousand, and in Rhode Island it exceeds 16 in every thousand. These states with their large and crowded population would doubtless show a higher death rate than Michigan. The following statistics taken from the registration report of Massachusetts for 1889 shows the death rate in several foreign countries for 1888.

England and Wales	17.8 per 1,000.
Scotland	17.6 " "
Ireland	18.0 " "
Sweden	18.3 " "
Austria	29.2 " "
France	21.8 " "
Switzerland	19.9 " "
Norway	16.9 " "
Italy	26.8 " "
Russia	26.7 " "
German Empire	23.8 " "

The average number of deaths for certain divisions of the year, as returned and as corrected, can be seen in the following table:

Periods of time.	Deaths as returned.	Corrected for omissions.
Per quarter	5,079	6,[illegible]
Per month	1,69[illegible]	2,[illegible]
Per week	391	5[illegible]
Per day	55	7[illegible]

Table 44 shows the number of deaths by quarters of the year, thus giving at a glance the seasons when the most deaths occur. The third and fourth quarters have the highest death rate for the years included in the table, and also for the ten years average The last part of the table gives the returns as corrected.

TABLE 44.—*Deaths in Michigan by quarters of the year, exhibiting the number and per cent of totals as returned and corrected for the years 1887–1889, and the average for ten years, 1879–1888.*

Totals and months with which quarters end.	1887.		1888.		1889.		Average for 10 years, 1879–1889.	
	Number.	Per cent of total.	Number.	Per cent of total.	Number.	Per cent of total.	Number.	Per cent of total.
Totals	19,482	100.00	21,764	100.00	20,315	100.00	17,721	100.00
As returned. March	4,055	20.83	4,866	22.36	4,351	21.41	3,663	20.67
As returned. June	4,476	22.98	5,394	24.78	4,428	21.80	4,101	23.14
As returned. September	5,886	30.21	5,936	27.28	5,916	29.13	5,112	28.85
As returned. December	4,996	25.64	5,502	25.28	5,557	27.35	4,787	27.01
As returned. Unknown	66	.34	66	.30	63	.31	58	.33
Average [a]	4,871	25.00	5,441	25.00	5,079	25.00	6,288	25.00
Totals	27,251	100.00	26,043	100.00	27,461	100.00	25,151	100.00
As corrected for omissions. March	6,443	23.64	6,253	24.01	6,658	24.25	5,919	23.58
As corrected for omissions. June	6,597	24.21	6,637	25.49	6,220	22.65	6,154	24.47
As corrected for omissions. September	7,971	29.25	6,955	26.70	7,793	28.38	7,028	27.90
As corrected for omissions. December	6,174	22.66	6,133	23.55	6,727	24.49	5,992	23.82
As corrected for omissions. Unknown	66	.24	66	.25	63	.23	58	.23
Average [a]	6,313	25.00	6,511	25.00	6,415	25.00	6,288	25.00

[a] Including deaths in unknown month.

The following table, number 45, gives the mortality by months, the months having the greatest coming first, for 1887, 1888, 1889 and a ten years average, 1879-1888. August leads in every year presented in the table, and in the ten years average, while January shows the least number of deaths for every year but 1889.

TABLE 45.—*Exhibiting, by months, the number and per cent of deaths returned for the years 1887-1889, and the average for ten years 1879-1888, the months, in order of greatest first.*

Order.	1887.			1888.			1889.			Average for 10 years, 1879-1888.		
	Year and months.	Number.	Per ct. of total.	Year and months.	Number.	Per ct. of total.	Year and months.	Number.	Per ct. of total.	Year and months.	Number.	Per ct. of total.
	Year...	19,482	100.00	Year...	21,764	100.00	Year...	20,315	100.00	Year...	17,721	100.00
1	Aug....	2,055	10.55	Aug....	2,169	9.97	Aug....	2,214	10.90	Aug....	1,818	10.26
2	Sept....	1,916	9.83	Dec....	2,012	9.24	Sept...	2,025	9.97	Sept....	1,776	10.02
3	July...	1,915	9.83	Sept...	1,978	9.09	Dec....	1,951	9.60	Dec....	1,683	9.50
4	Dec....	1,743	8.95	Apr....	1,909	8.77	Oct....	1,894	9.32	Oct....	1,615	9.11
5	Oct....	1,699	8.72	Mar....	1,865	8.57	Nov....	1,712	8.42	July...	1,518	8.57
6	Apr....	1,599	8.21	May...	1,858	8.54	July...	1,677	8.26	Nov....	1,489	8.40
7	Nov....	1,554	7.98	Oct....	1,848	8.49	Mar....	1,676	8.25	April...	1,446	8.16
8	Mar....	1,535	7.87	July...	1,789	8.22	April...	1,585	7.80	May...	1,406	7.94
9	May...	1,472	7.56	Nov....	1,642	7.54	May...	1,454	7.16	Mar....	1,402	7.91
10	June...	1,405	7.21	June...	1,627	7.48	Jan....	1,409	6.94	June...	1,250	7.05
11	Feb....	1,274	6.54	Feb....	1,585	7.28	June...	1,389	6.84	Feb....	1,178	6.65
12	Jan....	1,249	6.41	Jan....	1,416	6.51	Feb....	1,266	6.23	Jan....	1,082	6.10
	Unk....	66	.34	Unk....	66	.30	Unk....	63	.31	Unk....	58	.33
	Av.....	1,624	8.33	Av.....	1,814	8.33	Av.....	1,693	8.33	Av.....	1,477	8.33

SEX OF DECEDENTS.

A period of fourteen years is included in Table 46. It gives the mortality of males and females and certain comparisons between the two. Every year the males exceed the females, the average for fourteen years being 115 males to 100 females. This does not necessarily indicate a greater proportionate mortality among the males, as they are in excess of the females in the total population.

TABLE 46.—*Number and per cent of deaths of males and females returned in Michigan for the years 1876-1889. (Unknown sex excluded.)*

Years.	Deaths of males as returned.	Deaths of females as returned.	Deaths of males to 100 deaths of females.	Per cent of each sex to total of both sexes.			
				Males.	Females.	Excess of the sexes.	
						Males.	Females.
1876	6,756	5,761	117.3	53.97	46.03	7.94	.....
1877	6,827	6,040	113.0	53.06	46.94	6.12	.....
1878	6,632	6,082	109.0	52.16	47.84	4.32	.....
1879	7,522	6,848	109.8	52.34	47.66	4.68	.....
1880	8,645	7,410	116.7	53.85	46.15	7.70	.....
1881	10,263	8,910	115.2	53.53	46.47	7.06	.....
1882	8,713	7,664	113.7	53.20	46.80	6.40	.....
1883	9,101	7,748	117.5	54.02	45.98	8.04	.....
1884	9,589	8,385	114.4	53.35	46.65	6.70	.....
1885	9,025	7,569	119.2	54.39	45.61	8.78	.....
1886	9,725	8,402	115.7	53.65	46.35	7.30	.....
1887	10,563	8,877	119.0	54.34	45.66	8.68	.....
1888	11,722	10,024	116.9	53.90	46.10	7.80	.....
1889	10,984	9,297	118.1	54,16	45.84	8.32	.....
Average	9,005	7,787	115.4	53.57	46.43	7.14	.....

OMISSIONS IN THE ENUMERATION OF DEATHS.

In table 47 the deaths by months for several years with a ten years average, and corrected by the method before mentioned, is given. The amount found necessary to be added on account of the length of time occuring between the deaths and their enumeration is about 42 per cent.

The order of the months in table 47 is changed from that of table 45 because it is thought that the ommissions bear a direct relation to the time between the occurrence of the deaths and their enumeration, and that the per cent to be added to each month should be more or less as the time is longer or shorter.

TABLE 47.—*Exhibiting by months the number and per cent of deaths, as corrected for omissions in the enumeration, for the years 1887–1889, and the average for ten years, 1879–1888, months arranged in order by number, greatest first.*

Order.	1887.			1888.			1889.			Average for 10 years, 1879-1888.		
	Months.	Number.	Per cent of total.	Months.	Number.	Per cent of total.	Months.	Number.	Per cent of total.	Months.	Number.	Per cent of total.
	Total	27,251	100.00	Total	26,043	100.00	Total	27,461	100.00	Total	25,151	100.00
1	Aug.	2,783	10.21	Aug.	2,543	9.77	Aug.	2,921	10.64	Aug.	2,501	9.94
2	July	2,669	9.79	April	2,384	9.15	Sept.	2,600	9.47	Sept.	2,372	9.43
3	Sept.	2,519	9.24	Mar.	2,364	9.08	Mar.	2,509	9.14	April	2,224	8.84
4	April	2,417	8.87	May	2,284	8.77	Oct.	2,354	8.57	Mar.	2,215	8.81
5	Mar.	2,381	8.71	Sept.	2,281	8.76	Dec.	2,297	8.37	July	2,154	8.56
6	May	2,167	7.95	Dec.	2,205	8.47	July	2,272	8.27	May	2,109	8.39
7	Oct.	2,167	7.95	July	2,131	8.18	April	2,216	8.07	Oct.	2,089	8.31
8	Dec.	2,086	7.66	Oct.	2,096	8.05	Jan.	2,209	8.04	Dec.	2,037	8.10
9	Jan.	2,036	7.47	Feb.	2,040	7.83	Nov.	2,076	7.56	Feb.	1,909	7.59
10	Feb.	2,026	7.44	June	1,969	7.56	May	2,073	7.55	Nov.	1,867	7.42
11	June	2,013	7.39	Jan.	1,849	7.10	Feb.	1,940	7.06	June	1,821	7.24
12	Nov.	1,921	7.05	Nov.	1,831	7.03	June	1,931	7.03	Jan.	1,795	7.14
	Unk.	66	.24	Unk.	66	.25	Unk.	63	.23	Unk.	58	.23
	Av. [a]	2,271	8.33	Av. [a]	2,170	8.33	Av. [a]	2,288	8.33	Av. [a]	2,096	8.33

[a] Including deaths in unknown month.

AGES OF PERSONS WHO DIED IN MICHIGAN 1889.

Table 48 gives some important information concerning deaths at different ages. For the year 1889 more than one-fourth of the total number of deaths occurring were those of children under one year of age, and more than one-third were of children under five. The proportion of males and females at different ages can also be seen in this table.

In Massachusetts the percentage of deaths under one year of age in 1889, was 21.79, and that of deaths under 5 was 32.67. As compared with the percentages of those in our own State, they are much lower, and seem to indicate a higher rate of infant mortality in Michigan.

TABE 48.—*Exhibiting, by sex and by age, in periods of years the number and proportion of persons returned as having died in Michigan during the year 1889.*

Ages in years and periods.	Number of deaths, 1889.				Per cent of deaths at each age to total at all ages.			Per cent of each sex to total of both sexes.				Excess of the sexes by number.		Males to 100 females.
	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Males.	Females.	Excess. Males.	Excess. Females.	Males.	Females.	
All ages	20,815	10,984	9,297	34	100.00	100.00	100.00	54.16	45.84	8.32	.....	1,687	....	117
Under 1	5,288	2,895	2,356	32	26.01	26.36	25.34	55.13	44.87	10.26	.....	539	....	122
1 to 2	1,076	571	504	1	5.30	5.20	5.42	53.12	46.88	6.24	.....	67	....	113
2 to 3	559	275	283	1	2.75	2.50	3.04	49.28	50.72	....	.44	.....	8	97
3 to 4	411	192	219	....	2.02	1.75	2.35	46.72	53.28	.....	6.56	.....	27	88
4 to 5	385	173	182	....	1.85	1.58	1.74	51.64	48.36	3.28	.....	11	....	106
All under 5	7,664	4,106	3,534	34	33.73	37.38	37.90	53.81	46.19	7.62	.....	582	....	110
5 to 10	914	468	446	....	4.50	4.26	4.80	51.20	48.80	2.40	.....	22	....	105
10 to 15	508	252	256	....	2.50	2.29	2.75	49.61	50.39	.....	.78	.....	4	98
15 to 20	711	384	377	....	3.50	3.04	4.06	46.98	53.02	.....	6.04	.....	43	101
20 to 25	940	481	459	....	4.63	4.38	4.94	51.17	48.83	2.34	.....	22	....	105
25 to 30	857	447	410	....	4.22	4.07	4.41	52.16	47.84	4.32	.....	37	....	109
30 to 35	770	365	405	....	3.79	3.32	4.36	47.40	52.60	.....	5.20	.....	40	90
35 to 40	687	334	353	....	3.38	3.04	3.80	48.62	51.38	.....	2.76	.....	19	95
40 to 45	623	333	290	....	3.07	3.03	3.12	53.45	46.55	6.90	.....	43	....	115
45 to 50	633	335	298	....	3.12	3.05	3.20	52.92	47.08	5.84	.....	37	....	112
50 to 55	642	391	251	....	3.16	3.56	2.66	60.90	39.10	21.80	.....	140	....	156
55 to 60	670	395	275	....	3.30	3.60	2.96	58.94	41.06	17.88	.....	120	....	144
60 to 65	522	454	268	....	4.05	4.13	2.75	55.23	44.77	10.46	.....	186	....	123
65 to 70	908	557	351	....	4.47	5.07	4.15	61.34	38.66	22.68	.....	206	....	159
70 to 75	915	529	389	....	4.52	4.82	3.86	57.83	42.57	15.26	.....	140	....	137
75 to 80	801	467	334	....	3.94	4.25	2.66	58.30	41.70	16.60	.....	133	....	140
80 to 85	544	315	229	....	2.67	2.87	1.80	57.91	42.09	15.82	.....	86	....	138
85 to 90	302	180	122	....	1.48	1.64	.43	59.60	40.20	19.00	.....	59	....	149
90 to 95	88	46	42	....	.43	.42	.10	52.27	47.73	4.54	.....	4	....	110
95 to 100	20	11	9	....	.10	.10	.05	55.00	45.00	10.00	.....	2	....	122
100 and over	10	5	5	....	.04	.05	1.13	50.00	50.00	.....	.....	.....	....	100
Unknown ages	254	179	105	....	1.46	1.63	3.72	65.08	38.57	26.86	.....	74	....	170

TABLE 49.—*Exhibiting the per cent of deaths at different ages, for the years 1878-1889, and average for the twelve years.*

Years.	Under 1 year.	Under 5 years.	20 to 30.	All others.
1878	25.22	39.22	8.43	52.35
1879	24.68	39.52	8.23	52.25
1880	24.66	39.95	7.96	52.09
1881	24.20	40.63	9.00	50.37
1882	24.38	38.81	8.72	52.47
1883	24.83	38.26	9.37	52.37
1884	27.22	40.05	9.08	50.87
1885	26.10	37.61	8.95	53.44
1886	26.22	38.79	8.80	52.41
1887	25.39	37.94	8.84	53.22
1888	27.49	38.96	8.52	52.52
1889	26.01	37.72	8.84	42.93
Average	25.53	38.85	8.73	51.44

The following tabular exhibit is prepared in order to show the number of deaths at certain periods of age with the number of persons living at the same periods, according to the last census. It is thus seen that the death-rate is much larger for infants under one year of age than for children under five, being more than three times greater. The rates for the same ages in 1888 were 12.07 and 3.75.

	Under 1 Year.	Under 5 years.	20 to 30.	All others.
Deaths, 1889	5,283	7,664	1,797	8,721
Population	49,415	225,112	351,804	1,280,274
Per cent of deaths to population	10.70	3.40	.51	.68

DEATHS BY MONTHS AT DIFFERENT AGES.

The influence of the time of the year in relation to the mortality of persons of different age is set forth in Table 50. As usual the months of July, August and September proved most fatal to children under one year, as well as for all five.

The different ages and comparisons can be learned from the table, which is one of considerable importance and interest.

TABLE 50.—*The relation of the deaths at different periods of age to deaths at all ages, by months; and for the same period of age, the relation of the deaths in each month to the deaths in the year 1889.*

Deaths by ages in periods of years.		Year, 1889. a	Months, 1889.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
All ages		20,252	1,409	1,266	1,676	1,585	1,454	1,389	1,677	2,214	2,025	1,894	1,712	1,951
Under 1	Number	5,273	328	296	406	358	316	363	539	777	658	431	364	442
	Per cent of all ages	26.04	23.28	23.38	24.22	22.27	21.73	26.13	32.14	35.10	32.49	22.75	21.26	22.66
	Per cent of deaths, 1889	100.00	6.22	5.61	7.70	6.70	5.99	6.89	10.22	14.74	12.48	8.17	6.90	8.38
All under 5	Number	7,645	486	440	597	514	477	501	755	1,073	927	655	559	661
	Per cent of all ages	37.75	34.49	34.76	35.62	32.43	32.81	36.06	45.02	48.47	45.78	34.58	32.65	33.88
	Per cent of deaths, 1889	100.00	6.36	5.75	7.80	6.72	6.24	6.55	9.88	14.03	12.13	8.58	7.31	8.65
5 to 10	Number	914	78	65	81	63	63	55	57	55	65	90	115	127
	Per cent of all ages	4.51	5.54	5.13	4.83	3.98	4.33	3.96	3.40	2.49	3.21	4.75	6.72	6.51
	Per cent of deaths, 1889	100.00	8.53	7.11	8.56	6.89	6.89	6.02	6.24	6.02	7.11	9.85	12.58	13.90
10 to 20	Number	1,217	73	74	95	82	100	79	94	113	128	143	106	130
	Per cent of all ages	6 01	5.18	5.85	5.67	5.17	6.88	5.69	5.61	5.10	6.32	7.55	6.19	6.66
	Per cent of deaths, 1889	100.00	6.00	6.08	7.80	6.74	8.21	6.49	7.73	9.29	10.52	11.75	8.70	10.69
20 to 50	Number	4,503	323	284	387	386	339	335	325	423	399	438	403	461
	Per cent of all ages	22.24	22.93	22.43	23.09	24.35	23.31	24.12	19.38	19.10	19.70	23.13	23.54	23.63
	Per cent of deaths, 1889	100.00	7.17	6.30	8.60	8.57	7.53	7.44	7.22	9.39	8.86	9.73	8.95	10.24
50 and over	Number	5,707	420	388	495	513	455	399	419	519	482	548	514	5.55
	Per cent of all ages	28.18	29.80	30.65	29.54	32.37	31.29	28.73	24.98	23.44	23.80	28.93	30.02	28.45
	Per cent of deaths, 1889	100.00	7.36	6.80	8.65	8.99	7.98	6.99	7.34	9.10	8.45	9.00	9.60	9.71
Unknown ages	Number	266	29	15	21	27	20	20	27	31	24	20	15	17
	Per cent of all ages	1.31	2.06	1.19	1.29	1.70	1.38	1.44	1.61	1.40	1.19	1.06	.88	.87
	Per cent of deaths, 1889	100.00	10.90	5.64	7.90	10.15	7.52	7.52	10.15	11.65	9.02	7.52	5.64	6.39

a Excluding unknown month.

TABLE 51.—*Exhibiting by sex and by age in periods of years, the number of persons returned, as having died in Michigan during the year 1889.*

Ages in periods of years.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
All ages	Totals	20,315	1409	1266	1676	1585	1454	1389	1677	2214	2025	1894	1712	1951	63
	Males	10,984	751	682	857	851	780	743	945	1190	1079	1068	936	1067	35
	Females	9,297	656	582	815	733	673	641	726	1024	942	824	773	881	27
	Unknown	34	2	2	4	1	1	5	6	....	4	2	3	3	1
Under 1	Totals	5,283	328	296	406	353	316	363	539	777	658	431	364	442	10
	Males	2,895	187	176	217	200	178	191	297	414	342	233	207	246	7
	Females	2,356	139	118	185	152	137	167	238	363	312	196	154	193	2
	Unknown	32	2	2	4	1	1	5	4	....	4	2	3	3	1
All under 5	Totals	7,664	486	440	597	514	477	501	755	1073	927	655	559	661	19
	Males	4,106	270	245	311	285	254	263	401	561	486	353	307	358	12
	Females	3,524	214	193	282	228	222	233	348	512	437	300	249	300	6
	Unknown	34	2	2	4	1	1	5	6	....	4	2	3	3	1
5 to 10	Totals	914	78	65	81	63	63	53	57	55	65	90	115	127	....
	Males	468	29	30	47	32	31	37	39	31	29	40	56	67	....
	Females	446	49	35	34	31	32	18	18	24	36	50	59	60	....
10 to 15	Totals	508	32	32	48	33	38	29	40	48	50	63	45	49	1
	Males	252	16	15	24	18	17	12	16	28	24	34	29	19	....
	Females	256	16	17	24	15	21	17	24	20	26	29	16	30	1
15 to 20	Totals	711	41	42	47	49	62	50	54	65	78	80	61	81	1
	Males	334	18	25	19	19	33	25	32	30	38	36	24	34	1
	Females	377	23	17	28	30	29	25	22	35	40	44	37	47	....
20 to 25	Totals	940	58	51	79	70	70	69	60	97	103	106	83	92	2
	Males	481	26	22	37	37	36	36	32	57	64	60	35	38	1
	Females	459	32	29	42	33	34	33	28	40	39	46	48	54	1
25 to 30	Totals	857	77	55	70	66	64	60	63	72	66	77	87	99	1
	Males	447	44	28	34	31	33	26	35	41	32	39	51	52	1
	Females	410	33	27	36	35	31	34	28	31	34	38	36	47	....
30 to 35	Totals	770	49	59	59	75	55	55	59	66	70	66	68	87	2
	Males	365	19	31	22	38	25	25	28	22	37	37	29	51	1
	Females	405	30	28	37	37	30	30	31	44	33	29	39	36	1

TABLE 51.—CONTINUED.—*Deaths by periods of age, by sex, by month.*

Ages in periods of years.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
35 to 40	Totals	687	63	47	57	58	55	70	47	64	46	62	58	59	1
	Males	334	32	24	23	32	28	28	23	25	18	37	35	33	1
	Females	353	31	23	34	26	32	42	24	39	28	25	23	26	----
40 to 45	Totals	623	34	32	66	59	36	42	50	66	64	59	53	62	----
	Males	333	20	14	27	37	16	16	28	43	35	30	29	38	----
	Females	290	14	18	39	22	20	26	22	23	29	29	24	24	----
45 to 50	Totals	633	42	40	56	58	59	39	46	58	50	68	54	62	1
	Males	335	23	18	28	21	30	20	29	37	27	42	26	33	1
	Females	298	19	22	28	37	29	19	17	21	23	26	28	29	----
50 to 55	Totals	642	59	46	45	60	47	52	47	59	44	57	61	63	2
	Males	391	31	28	27	37	31	30	33	31	25	37	43	37	1
	Females	251	28	18	18	23	16	22	14	28	19	20	18	26	1
55 to 60	Totals	670	37	52	65	66	45	48	64	54	48	66	47	78	----
	Males	395	23	33	33	32	30	32	38	32	29	37	25	51	----
	Females	275	14	19	32	34	15	16	26	22	19	29	22	27	----
60 to 65	Totals	822	70	50	81	83	64	56	57	67	61	71	81	77	4
	Males	454	40	18	48	45	35	38	31	37	23	48	44	43	4
	Females	368	30	32	33	38	29	18	26	30	38	23	37	34	----
65 to 70	Totals	908	68	50	77	83	84	68	67	86	86	89	84	65	1
	Males	557	39	34	43	52	53	45	43	58	52	55	45	38	----
	Females	351	29	16	34	31	31	23	24	28	34	34	39	27	1
70 to 75	Totals	918	56	71	74	95	71	64	57	98	83	90	61	98	----
	Males	529	31	38	42	48	37	36	35	54	43	62	42	61	----
	Females	389	25	33	32	47	34	28	22	44	40	28	19	37	----
75 to 80	Totals	801	60	55	60	63	54	52	59	76	82	69	79	89	3
	Males	467	32	33	27	39	27	32	35	41	57	41	47	55	1
	Females	334	28	22	33	24	27	20	24	35	25	28	32	34	2
80 to 85	Totals	544	41	41	58	33	52	33	40	38	43	58	52	49	6
	Males	315	19	21	34	19	32	17	29	20	30	34	31	27	2
	Females	229	22	20	24	14	20	16	11	18	13	24	21	22	4
85 to 90	Totals	301	20	19	26	22	24	21	15	29	28	29	38	30	----
	Males	180	13	13	13	11	16	13	10	16	13	19	21	22	----
	Females	121	7	6	13	11	8	8	5	13	15	10	17	8	----
90 to 95	Totals	88	8	2	6	6	10	3	9	10	6	14	10	4	----
	Males	46	3	2	4	2	5	2	6	4	1	10	6	1	----
	Females	42	5	----	2	4	5	1	3	6	5	4	4	3	----

TABLE 51.—CONTINUED.—*Deaths by period of age, by sex, by month.*

Ages in periods of years.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
95 to 100	Totals	20	----	1	1	----	4	2	3	2	1	3	1	1	1
	Males	11	----	1	1	----	1	----	1	2	1	2	1	----	1
	Females	9	----	----	----	----	3	2	2	----	----	1	----	1	----
100 and over	Totals	10	1	1	2	2	----	----	1	----	----	2	----	1	----
	Males	5	1	----	1	1	----	----	1	----	----	1	----	----	----
	Females	5	----	1	1	1	----	----	----	----	----	1	----	1	----
Unknown	Totals	284	29	15	21	27	20	20	27	31	24	20	15	17	18
	Males	179	22	9	12	15	15	10	20	20	15	14	10	9	8
	Females	105	7	6	9	12	5	10	7	11	9	6	5	8	10

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TABLE 52.—*Exhibiting by sex, and by months, the number returned as having died in Michigan during the year 1889, at each and every age, the age stated in twelfths of a year, for those under one year, and in years for those over one year of age.*

Ages in years.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Under 1-12	Totals	2,479	181	161	221	203	167	192	197	228	244	208	217	257	5
	Males	1,417	108	99	117	118	91	97	123	138	142	109	129	141	5
	Females	1,031	71	60	101	84	75	90	70	90	98	92	85	113	2
	Unknown	31	2	2	3	1	1	5	4	....	4	2	3	3	1
1-12	Totals	427	25	28	27	25	36	20	45	69	53	29	33	36	1
	Males	221	14	17	12	14	18	14	22	40	21	15	14	19	1
	Females	205	11	11	14	11	18	6	23	29	32	14	19	17	....
	Unknown	1	....	....	1	....	....	....	....	....	....	....	....	....	....
2-12	Totals	352	19	16	30	14	16	31	39	60	62	32	11	22	....
	Males	179	10	10	18	5	8	14	20	26	30	18	6	14	....
	Females	173	9	6	12	9	8	17	19	34	32	14	5	8	....
3-12	Totals	347	6	16	18	18	19	22	40	72	61	33	18	24	....
	Males	196	4	9	12	12	11	13	23	39	32	22	10	9	....
	Females	151	2	7	6	6	8	9	17	33	29	11	8	15	....
4-12	Totals	282	13	12	11	18	21	15	38	64	43	21	12	14	....
	Males	165	6	8	8	10	15	9	21	38	23	13	7	7	....
	Females	117	7	4	3	8	6	6	17	26	20	8	5	7	....
5-12	Totals	274	25	9	12	11	8	14	32	65	41	24	18	15	....
	Males	137	11	6	7	8	8	7	16	26	19	12	8	9	....
	Females	137	14	3	5	3	....	7	16	39	22	12	10	6	....
6-12	Totals	262	16	6	20	11	11	19	42	51	40	19	13	14	....
	Males	132	11	3	9	6	8	8	14	27	21	9	9	7	....
	Females	130	5	3	11	5	3	11	28	24	19	10	4	7	....
7-12	Totals	204	13	14	10	13	8	9	22	42	33	15	10	14	1
	Males	104	6	9	3	8	2	4	10	22	14	12	4	9	1
	Females	100	7	5	7	5	6	5	12	20	19	3	6	5	....
8-12	Totals	186	7	10	18	8	8	11	25	29	22	21	12	15	....
	Males	102	4	7	11	3	3	6	17	13	12	7	7	12	....
	Females	84	3	3	7	5	5	5	8	16	10	14	5	3	....
9-12	Totals	188	12	10	17	16	6	11	23	40	18	12	9	14	....
	Males	96	7	3	7	9	3	8	14	19	7	5	5	9	....
	Females	92	5	7	10	7	3	3	9	21	11	7	4	5	....

TABLE 52.—CONTINUED.—*Death by ages, by sex, by months.*

Ages in years.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
10-12	Totals	135	8	6	9	7	13	8	18	26	20	9	5	6	....
	Males	71	5	2	5	2	9	3	9	10	13	5	3	5	....
	Females	64	3	4	4	5	4	5	9	16	7	4	2	1	....
11-12	Totals	147	3	8	13	9	3	11	18	31	21	13	6	11	....
	Males	75	1	3	8	5	2	8	8	16	8	6	5	5	....
	Females	72	2	5	5	4	1	3	10	15	13	7	1	6	....
1	Totals	1,076	59	69	78	67	70	61	115	162	152	94	65	82	2
	Males	571	31	33	44	34	31	35	53	80	91	51	39	48	1
	Females	504	28	36	34	33	39	26	61	82	61	43	26	34	1
	Unknown	1	....	....	....	....	....	....	1	....	....	....	....	....	....
2	Totals	559	44	30	46	35	35	27	48	71	54	54	57	56	2
	Males	275	25	16	20	19	20	14	21	41	25	23	26	24	1
	Females	283	19	14	26	16	15	13	26	30	29	31	31	32	1
	Unknown	1	....	....	....	....	....	....	1	....	....	....	....	....	....
3	Totals	411	28	22	37	28	34	32	35	37	41	36	38	40	3
	Males	192	11	7	20	18	15	15	20	15	18	21	15	15	2
	Females	219	17	15	17	10	19	17	15	22	23	15	23	25	1
4	Totals	335	27	23	30	31	22	18	18	26	22	40	35	41	2
	Males	173	16	13	10	14	10	8	10	11	10	25	20	25	1
	Females	162	11	10	20	17	12	10	8	15	12	15	15	16	1
5	Totals	264	22	17	33	22	20	10	13	16	17	21	38	35	....
	Males	131	11	7	18	10	6	6	11	9	7	7	22	17	....
	Females	133	11	10	15	12	14	4	2	7	10	14	16	18	....
6	Totals	190	16	15	13	16	11	12	12	15	8	24	27	21	....
	Males	101	7	8	8	10	7	8	8	9	4	10	11	11	....
	Females	89	9	7	5	6	4	4	4	6	4	14	16	10	....
7	Totals	190	15	10	13	10	19	13	14	12	15	16	24	29	....
	Males	108	5	7	10	6	12	10	10	6	6	6	12	18	....
	Females	82	10	3	3	4	7	3	4	6	9	10	12	11	....
8	Totals	153	13	18	10	7	6	13	9	6	13	19	15	24	....
	Males	76	2	6	6	3	2	8	7	5	7	11	7	12	....
	Females	77	11	12	4	4	4	5	2	1	6	8	8	12	....
9	Totals	117	12	5	12	8	7	7	9	6	12	10	11	18	....
	Males	52	4	2	5	3	4	5	3	2	5	6	4	9	....
	Females	65	8	3	7	5	3	2	6	4	7	4	7	9	....
10	Totals	99	4	3	7	6	8	4	8	11	11	11	10	15	1
	Males	54	2	2	5	6	4	2	3	5	6	7	6	6	....
	Females	45	2	1	2	....	4	2	5	6	5	4	4	9	

TABLE 52.—CONTINUED.—*Deaths by ages, by sex, by months.*

Ages in years.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
11	Totals	114	7	14	9	7	9	9	5	14	9	16	6	9	....
	Males	54	4	7	3	3	3	4	3	11	4	9	2	1	....
	Females	60	3	7	6	4	6	5	2	3	5	7	4	8	....
12	Totals	99	7	4	15	6	6	5	10	7	10	10	10	9	....
	Males	53	3	2	8	2	3	2	3	5	6	5	7	7	....
	Females	46	4	2	7	4	3	3	7	2	4	5	3	2	....
13	Totals	99	6	8	9	6	8	8	8	5	11	11	12	7	....
	Males	48	3	2	4	5	5	4	3	2	4	6	8	2	....
	Females	51	3	6	5	1	3	4	5	3	7	5	4	5	....
14	Totals	97	8	3	8	8	7	3	9	11	9	15	7	9	....
	Males	43	4	2	4	2	2	....	4	5	4	7	6	3	....
	Females	54	4	1	4	6	5	3	5	6	5	8	1	6	....
15	Totals	117	7	7	10	14	11	10	9	10	7	15	10	7	....
	Males	55	3	4	5	6	6	4	8	4	3	6	2	4	....
	Females	62	4	3	5	8	5	6	1	6	4	9	8	3	....
16	Totals	111	6	9	5	8	13	6	9	8	17	10	5	14	1
	Males	53	4	5	1	3	7	4	7	2	7	3	2	7	1
	Females	58	2	4	4	5	6	2	2	6	10	7	3	7	....
17	Totals	146	7	7	11	6	13	11	12	12	17	19	12	19	....
	Males	71	3	3	5	3	8	6	6	4	10	10	5	8	....
	Females	75	4	4	6	3	5	5	6	8	7	9	7	11	....
18	Totals	162	9	11	11	8	13	15	12	14	14	16	20	19	....
	Males	76	3	6	3	3	5	6	6	11	7	8	10	8	....
	Females	86	6	5	8	5	8	9	6	3	7	8	10	11	....
19	Totals	175	12	8	10	13	12	8	12	21	23	20	14	22	....
	Males	79	5	7	5	4	7	5	5	9	11	9	5	7	....
	Females	96	7	1	5	9	5	3	7	12	12	11	9	15	....
20	Totals	215	19	8	14	13	18	13	15	21	25	20	19	28	2
	Males	122	10	4	5	8	11	8	10	15	16	12	8	14	1
	Females	93	9	4	9	5	7	5	5	6	9	8	11	14	1
21	Totals	175	10	11	16	12	10	13	10	18	12	30	16	17	....
	Males	85	7	7	6	5	2	7	6	9	9	17	7	3	....
	Females	90	3	4	10	7	8	6	4	9	3	13	9	14	....
22	Totals	194	12	11	16	17	11	12	13	24	26	14	19	19	....
	Males	103	5	2	9	10	7	8	6	14	15	9	8	10	....
	Females	91	7	9	7	7	4	4	7	10	11	5	11	9	....

TABLE 52.—CONTINUED.—*Deaths by ages, by sex, by months.*

Ages in years.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
23	Totals	159	6	9	19	17	17	15	13	10	16	19	9	9	....
	Males	76	1	2	10	9	8	7	6	2	11	11	4	5	....
	Females	83	5	7	9	8	9	8	7	8	5	8	5	4	....
24	Totals	197	11	12	14	11	14	16	9	24	24	23	20	19	....
	Males	95	3	7	7	5	8	6	4	17	13	11	8	6	....
	Females	102	8	5	7	6	6	10	5	7	11	12	12	13	....
25	Totals	163	14	12	17	15	13	13	12	6	10	19	15	17	....
	Males	84	8	8	5	5	10	6	6	4	5	10	10	7	....
	Females	79	6	4	12	10	3	7	6	2	5	9	5	10	....
26	Totals	171	17	10	14	12	14	8	8	12	19	17	17	23	....
	Males	83	10	2	8	7	9	2	5	5	8	8	9	10	....
	Females	88	7	8	6	5	5	6	3	7	11	9	8	13	....
27	Totals	157	13	14	12	11	11	13	12	18	7	17	16	13	....
	Males	82	6	7	6	3	5	6	7	11	3	8	9	11	....
	Females	75	7	7	6	8	6	7	5	7	4	9	7	2	....
28	Totals	199	17	12	12	18	14	14	16	21	14	13	20	28	....
	Males	121	13	6	7	10	8	8	9	15	7	7	14	17	....
	Females	78	4	6	5	8	6	6	7	6	7	6	6	11	....
29	Totals	167	16	7	15	10	12	12	15	15	16	11	19	18	1
	Males	77	7	5	8	6	1	4	8	6	9	6	9	7	1
	Females	90	9	2	7	4	11	8	7	9	7	5	10	11	....
30	Totals	191	12	13	17	12	19	17	21	12	20	13	15	20	....
	Males	96	6	5	5	6	10	7	10	6	11	7	9	14	....
	Females	95	6	8	12	6	9	10	11	6	9	6	6	6	....
31	Totals	124	9	7	9	21	5	8	9	9	11	9	10	16	1
	Males	65	4	5	5	12	4	2	5	4	8	4	2	9	1
	Females	59	5	2	4	9	1	6	4	5	3	5	8	7	....
32	Totals	171	11	11	13	14	8	10	15	19	10	20	19	21	....
	Males	72	1	5	5	7	2	4	4	5	1	12	13	13	....
	Females	99	10	6	8	7	6	6	11	14	9	8	6	8	....
33	Totals	153	12	15	7	14	12	12	7	12	14	16	14	17	1
	Males	70	6	6	4	9	4	9	4	4	6	8	2	8	....
	Females	83	6	9	3	5	8	3	3	8	8	8	12	9	1
34	Totals	131	5	13	13	14	11	8	7	14	15	8	10	13	....
	Males	62	2	10	3	4	5	3	5	3	11	6	3	7	....
	Females	69	3	3	10	10	6	5	2	11	4	2	7	6	....

TABLE 52.—CONTINUED.—*Deaths by ages, by sex, by months.*

Ages in years.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
35	Totals	157	18	9	16	7	12	12	9	17	13	15	18	16	....
	Males	83	8	7	7	4	8	3	6	4	7	9	12	8	....
	Females	74	10	2	9	3	4	9	3	13	6	6	1	8	....
36	Totals	146	19	13	15	13	5	11	8	13	5	16	16	12	....
	Males	75	11	9	5	10	1	6	6	4	1	9	5	8	....
	Females	71	8	4	10	3	4	5	2	9	4	7	11	4	....
37	Totals	108	12	5	8	8	20	11	6	7	7	9	5	9	1
	Males	54	3	2	4	6	9	7	1	4	4	5	3	5	1
	Females	54	9	3	4	2	11	4	5	3	3	4	2	4	....
38	Totals	146	9	10	11	17	7	18	12	13	11	14	11	13	....
	Males	65	5	2	4	8	2	5	6	7	3	9	7	7	....
	Females	81	4	8	7	9	5	13	6	6	8	5	4	6	....
39	Totals	130	5	10	7	13	11	18	12	14	10	8	13	9	....
	Males	57	5	4	3	4	3	7	4	6	3	5	8	5	....
	Females	73	....	6	4	9	8	11	8	8	7	3	5	4	....
40	Totals	132	12	6	15	14	10	5	15	13	13	10	6	13	....
	Males	76	8	1	9	6	3	1	9	9	10	5	5	10	....
	Females	56	4	5	6	8	7	4	6	4	3	5	1	3	....
41	Totals	94	4	6	11	11	8	4	10	9	4	12	6	9	....
	Males	56	3	2	2	9	4	3	5	8	3	6	4	7	....
	Females	38	1	4	9	2	4	1	5	1	1	6	2	2	....
42	Totals	138	4	8	18	14	5	7	13	12	22	14	10	11	....
	Males	72	....	4	6	11	4	2	8	7	13	6	4	7	....
	Females	66	4	4	12	3	1	5	5	5	9	8	6	4	....
43	Totals	151	6	9	18	11	5	15	8	19	11	14	15	20	....
	Males	71	2	4	9	5	....	5	5	12	4	8	7	10	....
	Females	80	4	5	9	6	5	10	3	7	7	6	8	10	....
44	Totals	108	8	3	4	9	8	11	4	13	14	9	16	9	....
	Males	58	7	3	1	6	5	5	1	7	5	5	9	4	....
	Females	50	1	....	3	3	3	6	3	6	9	4	7	5	....
45	Totals	150	8	8	14	14	14	11	11	14	14	17	10	15	....
	Males	84	5	5	6	5	5	7	6	12	8	13	3	9	....
	Females	66	3	3	8	9	9	4	5	2	6	4	7	6	....
46	Totals	108	7	10	8	11	8	5	4	16	8	13	9	9	....
	Males	51	3	4	2	3	3	3	3	9	5	7	5	4	....
	Females	57	4	6	6	8	5	2	1	7	3	6	4	5	....

TABLE 52.—CONTINUED.—*Deaths by ages, by sex, by months.*

Ages in years.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
47	Totals	109	5	7	8	12	13	8	7	7	11	11	11	9	....
	Males	56	2	2	4	4	10	3	5	5	4	7	6	4	....
	Females	53	3	5	4	8	3	5	2	2	7	4	5	5	....
48	Totals	134	8	6	14	12	10	9	9	9	13	17	11	15	1
	Males	70	4	3	6	5	4	3	7	5	8	11	5	8	1
	Females	64	4	3	8	7	6	6	2	4	5	6	6	7	....
49	Totals	132	14	9	12	9	14	6	15	12	4	10	13	14	....
	Males	74	9	4	10	4	8	4	8	6	2	4	7	8	....
	Females	58	5	5	2	5	6	2	7	6	2	6	6	6	....
50	Totals	138	12	12	7	13	12	14	7	12	9	8	17	14	1
	Males	87	7	8	2	11	6	9	5	9	5	4	13	7	1
	Females	51	5	4	5	2	6	5	2	3	4	4	4	7	....
51	Totals	103	9	10	9	6	10	11	10	10	6	6	5	11	....
	Males	56	5	7	4	5	5	3	7	3	2	4	5	6	....
	Females	47	4	3	5	1	5	8	3	7	4	2	....	5	....
52	Totals	137	13	6	9	12	9	11	5	14	11	16	16	15	....
	Males	85	4	5	5	5	6	6	5	8	7	13	11	10	....
	Females	52	9	1	4	7	3	5	....	6	4	3	5	5	....
53	Totals	125	13	5	11	15	11	9	9	6	12	16	6	12	....
	Males	81	9	3	10	9	10	5	7	4	6	9	3	6	....
	Females	44	4	2	1	6	1	4	2	2	6	7	3	6	....
54	Totals	139	12	13	9	14	5	7	16	17	6	11	17	11	1
	Males	82	6	5	6	7	4	7	9	7	5	7	11	8	....
	Females	57	6	8	3	7	1	....	7	10	1	4	6	3	1
55	Totals	109	7	11	9	13	5	9	15	5	8	8	4	15	....
	Males	67	5	6	4	9	3	6	10	1	4	4	3	12	....
	Females	42	2	5	5	4	2	3	5	4	4	4	1	3	....
56	Totals	147	5	6	18	8	9	12	15	12	13	19	9	21	....
	Males	86	2	3	7	1	6	8	11	7	8	11	8	14	....
	Females	61	3	3	11	7	3	4	4	5	5	8	1	7	....
57	Totals	114	8	6	7	11	11	5	6	9	8	10	13	20	....
	Males	64	4	3	5	6	7	5	2	5	5	5	6	11	....
	Females	50	4	3	2	5	4	....	4	4	3	5	7	9	....
58	Totals	147	12	17	19	11	11	6	15	14	11	10	10	11	....
	Males	90	10	12	10	7	7	4	7	9	7	6	5	6	....
	Females	57	2	5	9	4	4	2	8	5	4	4	5	5	....

TABLE 52.—CONTINUED.—*Deaths by ages, by sex, by months.*

Ages in years.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
59	Totals	153	5	12	12	23	9	16	13	14	8	19	11	11	----
	Males	88	2	9	7	9	7	9	8	10	5	11	3	8	----
	Females	65	3	3	5	14	2	7	5	4	3	8	8	3	----
60	Totals	171	7	14	21	14	14	14	17	14	12	12	20	12	----
	Males	91	5	6	9	9	6	11	10	9	3	8	9	6	----
	Females	80	2	8	12	5	8	3	7	5	9	4	11	6	----
61	Totals	135	9	7	14	18	11	11	6	11	14	9	7	18	----
	Males	89	7	3	13	11	8	5	3	8	8	3	6	14	----
	Females	46	2	4	1	7	3	6	3	3	6	6	1	4	----
62	Totals	174	22	8	14	21	12	9	10	14	11	18	17	16	2
	Males	90	11	4	6	15	6	4	5	6	6	12	6	7	2
	Females	84	11	4	8	6	6	5	5	8	5	6	11	9	----
63	Totals	188	17	12	19	17	17	13	11	13	14	20	17	17	1
	Males	110	9	4	11	6	12	10	9	6	3	17	12	10	1
	Females	78	8	8	8	11	5	3	2	7	11	3	5	7	----
64	Totals	154	15	9	13	13	10	9	13	15	10	12	20	14	1
	Males	74	8	1	9	4	3	8	4	8	3	8	11	6	1
	Females	80	7	8	4	9	7	1	9	7	7	4	9	8	----
65	Totals	204	16	11	20	19	19	14	13	19	16	25	19	13	----
	Males	128	11	6	9	13	11	10	8	14	9	16	13	8	----
	Females	76	5	5	11	6	8	4	5	5	7	9	6	5	----
66	Totals	162	16	8	13	18	11	15	8	19	18	12	10	14	----
	Males	93	5	4	8	14	6	7	4	12	13	6	6	8	----
	Females	69	11	4	5	4	5	8	4	7	5	6	4	6	----
67	Totals	179	10	11	17	10	21	13	18	14	19	18	19	9	----
	Males	107	5	9	10	6	13	11	10	6	13	11	7	6	----
	Females	72	5	2	7	4	8	2	8	8	6	7	12	3	----
68	Totals	174	13	12	12	19	19	11	17	12	16	13	16	13	1
	Males	115	9	10	6	10	14	8	13	8	12	7	9	9	----
	Females	59	4	2	6	9	5	3	4	4	4	6	7	4	1
69	Totals	189	13	8	15	17	14	15	11	22	17	21	20	16	----
	Males	114	9	5	10	9	9	9	8	18	5	15	10	7	----
	Females	75	4	3	5	8	5	6	3	4	12	6	10	9	----
----	Totals	208	18	14	12	27	9	18	11	23	16	22	13	25	----
	Males	123	12	9	8	17	5	12	6	9	9	14	8	14	----
	Females	85	6	5	4	10	4	6	5	14	7	8	5	11	----

TABLE 52.—CONTINUED.—*Deaths by ages, by sex, by months.*

Ages in years.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
71	Totals	153	7	12	15	19	19	7	6	20	7	18	11	12	....
	Males	86	2	6	5	9	7	3	6	14	3	16	7	8	....
	Females	67	5	6	10	10	12	4	....	6	4	2	4	4	....
72	Totals	200	8	19	14	13	23	14	18	20	26	12	11	22	....
	Males	115	5	8	10	6	15	7	10	9	14	10	8	13	....
	Females	85	3	11	4	7	8	7	8	11	12	2	3	9	....
73	Totals	171	11	16	18	21	10	10	9	14	15	18	11	18	....
	Males	89	4	9	10	9	7	3	6	9	6	9	6	11	....
	Females	82	7	7	8	12	3	7	3	5	9	9	5	7	....
74	Totals	186	12	10	15	15	10	15	13	21	19	20	15	21	....
	Males	116	8	6	9	7	3	11	7	13	11	13	13	15	....
	Females	70	4	4	6	8	7	4	6	8	8	7	2	6	....
75	Totals	189	12	15	17	16	11	11	9	19	22	14	20	23	....
	Males	118	8	11	5	13	9	6	5	11	16	7	11	16	....
	Females	71	4	4	12	3	2	5	4	8	6	7	9	7	....
76	Totals	155	10	11	8	9	4	10	22	13	16	12	18	19	3
	Males	93	5	7	4	5	....	6	15	9	11	8	11	11	1
	Females	62	5	4	4	4	4	4	7	4	5	4	7	8	2
77	Totals	154	8	10	14	10	13	13	10	13	18	12	16	17	....
	Males	89	4	7	9	5	6	10	6	8	13	4	9	8	....
	Females	65	4	3	5	5	7	3	4	5	5	8	7	9	....
78	Totals	161	11	10	9	11	17	8	13	22	15	16	13	16	....
	Males	84	5	4	2	4	9	4	6	9	10	13	9	9	....
	Females	77	6	6	7	7	8	4	7	13	5	3	4	7	....
79	Totals	142	19	9	12	17	9	10	5	9	11	15	12	14	....
	Males	83	10	4	7	12	3	6	3	4	7	9	7	11	....
	Females	59	9	5	5	5	6	4	2	5	4	6	5	3	....
80	Totals	108	7	9	12	3	12	4	9	7	7	11	13	11	3
	Males	64	5	4	5	1	6	2	8	4	6	6	10	6	1
	Females	44	2	5	7	2	6	2	1	3	1	5	3	5	2
81	Totals	106	10	12	13	6	13	7	4	5	8	12	9	7	....
	Males	63	6	6	7	4	11	5	3	3	4	6	4	4	....
	Females	43	4	6	6	2	2	2	1	2	4	6	5	3	....
82	Totals	123	7	9	6	6	5	8	11	16	12	13	14	14	2
	Males	65	1	4	3	3	1	3	9	9	8	7	6	10	1
	Females	58	6	5	3	3	4	5	2	7	4	6	8	4	

TABLE 52.—CONTINUED.—*Deaths by ages, by sex, by months.*

Ages in years.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
83	Totals	99	9	4	15	8	9	7	7	4	9	10	6	10	1
	Males	59	4	3	11	5	5	3	4	2	6	7	4	5	----
	Females	40	5	1	4	3	4	4	3	2	3	3	2	5	1
84	Totals	108	8	7	12	10	13	7	9	6	7	12	10	7	----
	Males	64	3	4	8	6	9	4	5	2	6	8	7	2	----
	Females	44	5	3	4	4	4	3	4	4	1	4	3	5	----
85	Totals	80	5	5	8	7	7	2	5	3	8	10	10	10	----
	Males	43	3	2	5	2	5	1	5	1	2	4	5	8	----
	Females	37	2	3	3	5	2	1	----	2	6	6	5	2	----
86	Totals	72	3	5	7	4	2	11	8	6	6	8	6	6	----
	Males	45	2	3	3	2	2	9	5	4	2	5	3	5	----
	Females	27	1	2	4	2	----	2	3	2	4	3	3	1	----
7	Totals	61	7	3	5	4	5	2	1	10	6	6	9	3	----
	Males	40	5	3	3	4	3	----	----	5	3	6	5	3	----
	Females	21	2	----	2	----	2	2	1	5	3	----	4	----	----
88	Totals	45	5	1	4	6	5	3	1	6	4	2	4	4	----
	Males	24	3	1	1	3	3	2	----	3	3	1	3	1	----
	Females	21	2	----	3	3	2	1	1	3	1	1	1	3	----
89	Totals	43	----	5	2	1	5	3	----	4	4	3	9	7	----
	Males	28	----	4	1	----	3	1	----	3	3	3	5	5	----
	Females	15	----	1	1	1	2	2	----	1	1	----	4	2	----
90	Totals	32	3	----	1	3	2	2	7	4	2	3	3	2	----
	Males	20	1	----	1	2	1	2	5	2	1	2	2	1	----
	Females	12	2	----	----	1	1	----	2	2	1	1	1	1	----
91	Totals	15	----	1	1	1	2	----	1	1	1	6	----	1	----
	Males	8	----	1	----	----	1	----	1	----	----	5	----	----	----
	Females	7	----	----	1	1	1	----	----	1	1	1	----	1	----
92	Totals	19	3	1	2	1	1	----	----	1	2	2	5	1	----
	Males	8	1	1	2	----	----	----	----	----	----	1	3	----	----
	Females	11	2	----	----	1	1	----	----	1	2	1	2	1	----
93	Totals	11	----	----	1	1	4	1	----	2	----	1	1	----	----
	Males	5	----	----	1	----	2	----	----	1	----	1	----	----	----
	Females	6	----	----	----	1	2	1	----	1	----	----	1	----	----
94	Totals	11	2	----	1	----	1	----	1	2	1	2	1	----	----
	Males	5	1	----	----	----	1	----	----	1	----	1	1	----	----
	Females	6	1	----	1	----	----	----	1	1	1	1	----	----	----

TABLE 52.—CONTINUED.—*Deaths by ages, by sex, by months.*

Ages in years.	Sex.	Year, 1889.	Months, 1889.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
95	Totals	10	....	1	1	....	2	1	....	1	1	1	....	1	1
	Males	6	....	1	1	....	1	....	....	1	1	....	....	....	1
	Females	4	....	....	....	....	1	1	....	....	....	1	....	1	....
96	Totals	5	....	....	....	....	1	....	2	1	....	....	1	....	....
	Males	2	....	....	....	....	....	....	....	1	....	....	1	....	....
	Females	3	....	....	....	....	1	....	2	....	....	....	....	....	....
97	Totals	2	....	....	....	....	1	....	1	....	....	....	....	....	....
	Males	1	....	....	....	....	....	....	1	....	....	....	....	....	....
	Females	1	....	....	....	....	1	....	....	....	....	....	....	....	....
98	Totals	2	....	....	....	....	....	1	....	....	....	1	....	....	....
	Males	1	....	....	....	....	....	....	....	....	....	1	....	....	....
	Females	1	....	....	....	....	....	1	....	....	....	....	....	....	....
99	Totals	1	....	....	....	....	....	....	....	....	....	1	....	....	....
	Males	1	....	....	....	....	....	....	....	....	....	1	....	....	....
	Females	....	....	....	....	....	....	....	....	....	....	....	....	....	....
100 and over	Totals	10	1	1	2	2	....	....	1	....	....	2	....	1	....
	Males	5	1	....	1	1	....	....	1	....	....	1	....	....	....
	Females	5	....	1	1	1	....	....	....	....	....	1	....	1	....
Unknown	Totals	284	29	15	21	27	20	20	27	31	24	20	15	17	18
	Males	179	22	9	12	15	15	10	20	20	15	14	10		8
	Females	105	7	6	9	12	5	10	7	11	9	6	5		0

INFANT MORTALTY.

The return of still births for 1889 was 1,202, a less number than for 1888 when 1,358 were reported, which was the most returned for any year of the registration. As will be seen the number for 1889 is much larger than the average for ten years.

TABLE 53.—*The relation of still births to all deaths as returned for the year 1887-1889, and the average for ten years 1879-1888, corrected by means of the returns of births.*

	Total deaths and still births.			
	1887.	1888.	1889.	Average for 10 years 1879-1888.
All deaths	19,482	21,764	20,315	17,721
Number of still births	897	1,358	1,202	988
Per cent of still berths to total deaths	4.60	6.24	5.92	5.58

RELATIONS OF DEATHS OF CHILDREN UNDER ONE TO BIRTHS.

Tables 54, 55 and 56 are designed to show the influence of the different seasons upon the lives of young children. A complete description of table 54 was given on page 108 of the report for 1884. It has been omitted in the reports since, as it was thought no difficulty will be experienced in understanding it.

Table 55 shows the number of children who where born in each month during the year 1888 and who died in 1888 and 1889 under one year. The number of deaths and births, and proportion for each sex and every month can be seen by this table.

In table 56 the ages and months of death of children who died under one year of age are given. The first column of figures at the left of the table shows the number of children born in 1888, and in each month of that year who died before reaching the age of one year. The first diagonal column shows that a very large proportion of the children die during the month of birth, or under one month old. Of the 463 children born in January, 1888, 194 died in the month of birth, 24 in February, and so on through the year. The last column in the table shows what per cent of the children born in each month of the year 1888 died during the month of birth.

TABLE 55.—*Of the children born in 1888, the number who died during the year 1888, the number who died during the year 1889, under one year of age, and the per cent of the decedents under one year to children born in 1888, according to the returns.*

Months of births.	Births in 1888, as returned.	Born in 1888.				Births of males, 1888, as returned.	Males born in 1888.				Births of females 1888, as returned.	Females born in 1888.			
		Died during the year 1888.	Died aged under 1 year during the year 1889.	Total died aged under 1 year.	Per cent of deaths under 1 to births.		Died during the year 1888.	Died aged under 1 year during the year 1889.	Total died aged under 1 year.	Per cent of deaths under 1 to births.		Died during the year 1888.	Died aged under 1 year during the year 1889.	Total died aged under 1 year.	Per cent of deaths under 1 to births.
Totals *	48,907	4,862	920	5,782	11.82	25,502	2,774	492	3,266	12.81	23,483	2,088	428	2,516	10.71
January	3,531	463	.....	463	13.11	1,829	249	.....	249	13.61	1,699	214	.....	214	12.60
February	3,516	491	3	494	14.05	1,843	282	1	283	15.36	1,669	209	2	211	12.64
March	4,099	506	16	522	12.73	2,120	287	8	295	13.91	1,979	219	8	227	11.47
April	3,953	531	31	562	14.22	2,067	286	17	303	14.68	1,883	245	14	259	13.75
May	4,214	463	35	498	11.82	2,174	263	17	280	12.88	2,038	200	18	218	10.70
June	4,133	424	50	474	11.47	2,116	240	24	264	12.48	2,016	184	26	210	10.42
July	4,223	403	88	491	11.63	2,190	231	57	288	13.15	2,030	172	31	203	10.00
August	4,514	431	81	512	11.34	2,393	254	34	288	12.04	2,122	177	47	224	10.56
September	4,415	314	123	437	9.90	2,268	191	65	256	11.29	2,145	123	58	181	8.44
October	4,305	285	130	415	9.64	2,245	156	65	221	9.84	2,059	129	65	194	9.42
November	3,811	260	175	435	11.41	1,959	151	102	253	12.91	1,850	109	73	182	9.84
December	4,193	291	188	479	11.42	2,298	184	102	286	12.45	1,893	107	86	193	10.19

* Excluding 45 in unknown months.

Months of births, 1888.	Born in 1888, died under 1 year of age.	Months of death, 1888.												Months of death, 1889.												Per cent died aged under 1 month.[a]	Births in 1888 as returned.[b]	Per cent of children who died aged under 1 month to all children born.[c]
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.			
Born in 1888, died aged under 1 year	5,782	194	229	278	324	371	346	484	710	588	417	399	522	147	107	128	93	57	69	106	126	59	22	6	....	.....	48,952	.....
January	463	194	24	23	23	23	17	40	47	30	22	10	10	....	....	....	....	....	....	....	....	....	....	....	....	41.90	3,531	5.49
February	494	....	205	37	32	32	23	36	56	30	19	12	9	3	....	....	....	....	....	....	....	....	....	....	....	41.50	3,516	5.83
March	522	....	....	218	36	36	28	38	56	48	20	12	14	8	8	....	....	....	....	....	....	....	....	....	....	41.76	4,099	5.32
April	562	....	....	....	233	39	37	54	72	52	18	8	18	12	6	13	....	....	....	....	....	....	....	....	....	41.44	3,953	5.89
May	498	....	....	....	....	241	28	42	63	47	12	12	18	7	10	9	9	....	....	....	....	....	....	....	....	48.39	4,214	5.72
June	474	....	....	....	....	....	213	47	57	45	19	21	22	13	10	17	7	3	....	....	....	....	....	....	....	44.94	4,133	5.15
July	491	....	....	....	....	....	....	227	66	51	32	9	18	16	14	18	16	13	11	....	....	....	....	....	....	46.23	4,223	5.38
August	512	....	....	....	....	....	....	....	293	60	34	25	19	25	6	10	8	6	8	18	....	....	....	....	....	57.23	4,514	6.49
September	437	....	....	....	....	....	....	....	....	225	31	33	25	13	9	20	13	8	11	18	31	....	....	....	....	57.49	4,415	5.10
October	415	....	....	....	....	....	....	....	....	....	210	33	42	6	12	12	11	8	11	23	26	21	....	....	....	50.60	4,305	4.88
November	435	....	....	....	....	....	....	....	....	....	....	224	36	19	16	11	11	11	9	25	40	20	13	....	....	52.62	3,811	5.87
December	479	....	....	....	....	....	....	....	....	....	....	....	291	25	16	18	18	8	19	22	29	18	9	6	....	60.65	4,193	6.94
Deaths at each age. No. of deaths	5,782	....	....	....	....	....	....	....	....	....	....	....	....	2774	462	422	367	304	277	279	272	195	201	148	146	47.98	.....	5.67
Deaths at each age. Ages in Mos.	.....	....	....	....	....	....	....	....	....	....	....	....	....	-1	1	2	3	4	5	6	7	8	9	10	11	.....	.....	.....

[a] That is, per cent of children who died during month of birth to total born in 1888 who died aged under one year.
[b] Excluding 45 in unknown months—24 males, 19 females, and 2 of unknown sex.
[c] That is, of the children born in 1888, the per cent who died during month of birth—according to the returns of births and deaths.
It should be borne in mind that probably a larger proportion of the births and of the deaths are returned for the later months of the year.

TABLE 57.—*The relation, by months, of the decedents aged under one month to the births returned for the year 1889.*

Sex, etc., specified.		Year, 1889.	Months, 1889.												
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Totals	Births	49,272	3,340	3,104	4,001	4,057	4,238	4,050	4,252	4,526	4,382	4,292	4,331	4,646	53
	Deaths aged under one month [a]	2,479	181	161	221	203	167	192	197	228	244	203	217	257	8
	Per cent of deaths to births	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Males	Births	25,642	1,756	1,607	2,128	2,081	2,181	2,096	2,256	2,370	2,275	2,247	2,252	2,368	25
	Deaths aged under one month	1,417	108	99	117	118	91	97	123	138	142	109	129	141	5
	Per cent of deaths to births	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Females	Births	23,582	1,582	1,495	1,867	1,974	2,056	1,950	1,991	2,152	2,101	2,041	2,075	2,275	23
	Deaths aged under one month	1,031	71	60	101	84	75	90	70	90	98	92	85	113	2
	Per cent of deaths to births	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Unknown	Births	48	2	2	6	2	1	4	5	4	6	4	4	3	5
	Deaths aged under one month	31	2	2	3	1	1	5	4	.....	4	2	3	3	1

[a] Still-births included.

TABLE 58.—*Exhibiting certain details concerning persons returned as having died aged one hundred years and over during the year 1889.*

Names of Centenarians, 1889.	Sex.	Color.	Married, Single or Widowed.	Birthplace.	Age.			Occupation.	Place of death.		Date of death, 1889.		Cause of Death.
					Year.	Month.	Day.		Town.	County.	Month.	Day.	
Charlotte Sanders	Female	Black	Unknown	Unknown	107			Unknown	Jefferson	Cass	October	12	Old age.
Lewis Houseman	Male	White	Married	Penn.	103			Unemploy'd	Petoskey	Emmet	July	15	Old age.
Sarah Campbell	Female	White	Widow	New York	102	7		Housekeeper	Blackman	Jackson	April	20	Old age.
Adam Dutcher	Male	White	Widower	New York	100			Farmer	Woodstock	Lenawee	March	13	Old age.
Charlotte Godfrey	Female	Indian	Widow	Michigan	108			Unknown	Ontonagon	Ontonagon	March	9	Old age.
Z. W. Bunce	Male	White	Single	Conn.	101	10	23	Unemploy'd	Port Huron	St. Clair	October	8	Old age.
Helen Morton	Female	White	Unknown	Unknown	110			Unknown	Pittsfield	Washtenaw	December	7	Old age.
Mary M'Carty	Female	White	Widow	Ireland	100			Unknown	Scio	Washtenaw	February	1	Old age.
Matthew Watson	Male	Black	Married	Mass.	106	1	1	Merchant	Detroit	Wayne	January	5	Old age.
Gardner Barber	Male	White	Married	New York	103		5	Farmer	Plymouth	Wayne	April	17	Old age.

TABLE 59.—*Counties and townships from which no returns of deaths for 1889 were received by this department, showing population in 1884.*

Counties.	Townships from which no returns of deaths for 1889 were received.	Population, June, 1884.																				
		Totals.			Color or race.												Nativity.					
					White.			Black and mulatto.			Indian.			Unknown color.			Native.		Foreign.		Unknown.	
		Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Totals		6,813	4,072	2,741	6,634	3,967	2,667	8	8	....	118	66	52	53	31	22	2,481	2,069	1,578	678	13	4
Chippewa	Detour	615	384	231	565	353	212	8	8	....	1	....	1	41	23	18	123	76	260	154	1	1
	Superior	680	408	272	557	339	218	....	....	....	115	65	50	8	4	4	179	141	227	131	2	....
	Trout Lake a	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	White Fish a	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Delta	Minnewaska a	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Gladwin	Billings	83	50	33	83	50	33	....	....	....	....	....	....	....	....	....	33	26	17	7	....	....
	Buckeye	102	63	39	102	63	39	....	....	....	....	....	....	....	....	....	44	33	19	6	....	....
	Sage	112	69	43	112	69	43	....	....	....	....	....	....	....	....	....	41	35	28	8	....	....
Iron a	Felch	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Mastodon	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lake	Eden	71	46	25	71	46	25	....	....	....	....	....	....	....	....	....	33	24	13	1	....	....
	Glencoe	72	40	32	72	40	32	....	....	....	....	....	....	....	....	....	34	30	6	2	....	....
Lenawee	Rome	1,289	675	614	1,289	675	614	....	....	....	....	....	....	....	....	....	639	581	35	33	1	....
Marquette	Richmond	370	205	165	370	205	165	....	....	....	....	....	....	....	....	....	86	90	119	75	....	....

Mason	Branch	476	296	180	472	292	180	----	----	----	----	----	----	4	4	----	152	110	138	70	6	----
Roscommon	Denton	183	119	64	183	119	64	----	----	----	----	----	----	----	----	----	70	37	49	27	----	----
	Gerrish	251	193	58	251	193	58	----	----	----	----	----	----	----	----	----	94	44	99	14	----	----
	Higgins	851	508	343	851	508	343	----	----	----	----	----	----	----	----	----	276	253	229	89	3	1
	Nester	391	353	38	391	353	38	----	----	----	----	----	----	----	----	----	107	31	246	7	----	----
	Roscommon	161	104	57	161	104	57	----	----	----	----	----	----	----	----	----	66	44	38	12	----	1
Van Buren	Keeler	1,106	559	547	1,104	558	546	----	----	----	2	1	1	----	----	----	504	504	55	42	----	1

a Organized since census was taken.

Table 59 gives a list of the townships from which no returns of deaths were received for the year 1889. There were 21 of these townships. Of these five were not organized when the last census was made. The population for the remaining townships was 6,813. While there is a fine of one hundred dollars and costs of prosecution for every supervisor failing to make his returns, yet every year there are a number of such cases.

In table 60 the townships which reported that no deaths occurred within their borders during the year 1889 are given. Eleven of them have been organized since the last census, so that the population cannot be given. There were 44 townships reporting no deaths for the year. For 1888 there were 54 such reports.

The number of deaths occurring in some of these thinly settled townships would, from several apparent causes, be small, but it is hardly credible that there were no deaths in townships having nearly a thousand inhabitants.

TABLE 60.—*Counties and townships in which it was reported that no deaths occurred in 1889.*

Counties.	Townships, no deaths in 1889.	Population.		
		Totals.	Males.	Females.
Totals		8,619	4,790	3,829
Alger [a]	Au Train			
	Bert			
Arenac	Au Gres	484	284	200
	Moffitt	143	84	59
	Turner [a]			
Baraga	Arvon	308	200	108
	Spurr	266	167	99
Benzie	Colfax	179	91	88
	Platt	214	113	101
Crawford	Ball	130	77	53
	Blaine [a]			
	Center Plains	351	188	163
Cheboygan	Burt	353	192	161
	Forest [a]			
Clare	Greenwood	214	135	79
	Hamilton [a]			
	Sheridan	497	263	234
	Summerfield	196	113	83
Houghton	Laird [a]			
Iosco	Alabaster	382	221	161
	Reno [a]			
	Thompson	42	26	16
Isabella	Bloomfield	419	238	181
Marquette	Humboldt	511	282	229
	Turner [a]			
Missaukee	Bloomfield	189	112	77
	Forest	141	74	67
Ogemaw	Damon	260	138	122
	Hill	30	20	10
	Horton	228	135	93
	Klacking	284	152	132
	Logan [a]			
	Mills	62	33	29
Ontonagon	Interior [a]			
Osceola	Cedar	229	117	112
Oscoda	Atherton	220	115	105
	Big Creek	143	82	61
	Greenwood	83	39	44
	Hannon	124	66	58
Otsego	Bagley	643	338	305
	Dover	160	91	69
Wexford	Boon	165	94	71
	Colfax	550	285	265
	Selma	419	225	194

TABLE 61.—*Exhibiting for the State and counties, by sex, the number of deaths returned in each month of the year 1889, and the number of deaths at each period of age.*

State and counties.	Sex.	Year, 1889.	Months, 1889.													Ages in periods of years, 1889.																	
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
State	Totals	20,315	1409	1266	1676	1585	1454	1389	1677	2214	2025	1894	1712	1951	63	7664	914	508	711	940	857	770	687	623	633	642	670	822	908	918	801	963	284
	Males	10,984	751	682	857	851	780	743	945	1190	1079	1068	936	1067	35	4106	468	252	334	481	447	365	334	333	335	391	395	454	557	529	467	557	179
	Females	9,297	656	582	815	733	673	641	726	1024	942	824	773	881	27	3524	446	256	377	459	410	405	353	290	298	251	275	368	351	389	334	406	105
	Unknown	34	2	2	4	1	1	5	6	....	4	2	3	3	1	34	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Alcona	Totals	19	1	1	1	2	....	1	2	3	3	2	1	2	..	7	2	1	....	3	....	2	1	....	....	....	1	2	....	....	....	....	....
	Males	9	1	1	1	1	....	1	....	....	1	2	1	....	..	1	2	....	....	2	....	2	....	....	....	....	1	1	....	....	....	....	....
	Females	10	....	....	....	1	....	....	2	3	2	....	....	2	..	6	....	1	....	1	....	....	1	....	....	....	....	1	....	....	....	....	....
Alger	Totals	5	....	....	....	....	....	....	....	1	3	....	....	1	..	3	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
	Males	2	....	....	....	....	....	....	....	....	2	....	....	....	..	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females	3	....	....	....	....	....	....	....	1	1	....	....	1	..	2	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Allegan	Totals	359	40	23	35	36	21	22	28	34	29	31	28	30	2	114	7	5	17	18	15	7	13	9	10	17	11	25	29	19	17	25	1
	Males	201	18	14	22	18	9	12	18	24	17	21	14	12	2	70	5	1	9	10	4	2	4	5	3	11	7	14	18	11	8	18	1
	Females	158	22	9	13	18	12	10	10	10	12	10	14	18	..	44	2	4	8	8	11	5	9	4	7	6	4	11	11	8	9	7	.
Alpena	Totals	122	6	5	13	13	6	10	7	14	17	14	8	8	1	68	12	3	2	7	7	2	2	4	4	5	....	2	....	2	....	1	1
	Males	67	4	4	6	7	5	7	3	5	13	2	7	4	..	41	6	1	1	2	3	1	....	3	2	3	....	1	....	2	....	....	1
	Females	55	2	1	7	6	1	3	4	9	4	12	1	4	1	27	6	2	1	5	4	1	2	1	2	2	....	1	....	....	....	1	....
Antrim	Totals	75	5	5	6	2	3	5	5	11	10	9	3	11	..	37	2	3	1	5	2	2	2	3	3	1	4	2	3	3	2	....	....
	Males	41	5	2	3	1	1	2	3	6	5	6	1	6	..	24	....	1	....	3	1	1	....	2	1	1	2	....	1	3	1	....	....
	Females	34	....	3	3	1	2	3	2	5	5	3	2	5	..	13	2	2	1	2	1	1	2	1	2	....	2	2	2	....	1	....	....

Arenac	Totals	47	3	1	1	5	1	1	10	7	7	5	4	2	..	33	1	2	1	1	2	1	1	1	....	....	....	1	...	1	1	1	...
	Males	32	2	1	....	4	1	....	9	3	5	3	3	1	..	22	....	2	1	....	1	1	....	1	....	....	....	1	...	1	1	1	...
	Females	15	1	....	1	1	....	1	1	4	2	2	1	1	..	11	1	....	....	1	1	....	1	....	....	....	....	....	....	....	....	....	...
Baraga	Totals	35	3	....	1	....	3	2	5	9	3	5	2	2	..	12	2	1	3	....	1	2	1	4	....	1	1	...	...	1	1	....	5
	Males	19	....	....	....	....	2	1	3	5	1	3	2	2	..	4	1	1	1	....	1	2	....	2	....	1	1	...	...	....	....	....	5
	Females	16	3	....	1	....	1	1	2	4	2	2	....	....	..	8	1	....	2	....	....	....	1	2	....	....	....	....	....	1	1	....	...
Barry	Totals	177	1	14	18	21	11	8	15	18	17	24	16	14	..	54	3	3	4	15	4	5	6	5	3	9	11	7	13	11	8	11	5
	Males	86	1	8	10	10	5	3	10	9	6	11	6	7	..	27	....	1	3	6	....	4	1	3	....	2	6	4	6	4	7	7	5
	Females	91	....	6	8	11	6	5	5	9	11	13	10	7	..	27	3	2	1	9	4	1	5	2	3	7	5	3	7	7	1	4	...
Bay	Totals	493	22	27	34	31	36	34	54	63	42	46	54	48	2	257	17	5	21	23	22	15	17	15	12	11	13	13	12	15	11	13	1
	Males	251	12	15	14	16	20	16	28	27	21	25	32	24	1	134	9	2	6	5	9	8	10	9	8	7	9	7	9	7	7	5	...
	Females	242	10	12	20	15	16	18	26	36	21	21	22	24	1	123	8	3	15	18	13	7	7	6	4	4	4	6	3	8	4	8	1
Benzie	Totals	36	2	2	3	3	2	2	2	10	1	2	2	4	1	17	1	1	....	2	....	2	....	1	....	1	2	1	4	1	1	....	2
	Males	18	1	....	1	2	2	1	....	5	....	2	1	3	..	6	....	....	....	1	....	1	....	1	....	1	2	1	2	1	1	....	1
	Females	18	1	2	2	1	....	1	2	5	1	....	1	1	1	11	1	1	....	1	....	1	....	....	....	....	....	....	2	...	...	....	1
Berrien	Totals	283	19	26	17	14	17	27	20	27	31	23	30	32	..	74	11	12	15	18	17	13	7	2	9	13	15	8	16	15	12	25	1
	Males	148	15	13	10	5	7	20	11	14	14	13	11	15	..	41	5	7	6	5	10	6	4	1	6	7	8	4	10	8	7	13	...
	Females	135	4	13	7	9	10	7	9	13	17	10	19	17	..	33	6	5	9	13	7	7	3	1	3	6	7	4	6	7	5	12	1
Branch	Totals	272	21	21	21	32	13	14	27	21	29	31	21	20	1	57	7	4	6	12	10	12	6	7	9	12	20	16	23	24	18	26	3
	Males	141	9	12	12	13	8	6	17	5	17	19	12	10	1	31	2	4	3	5	3	3	2	3	6	6	12	10	11	13	10	16	1
	Females	131	12	9	9	19	5	8	10	16	12	12	9	10	..	26	5	....	3	7	7	9	4	4	3	6	8	6	12	11	8	10	2
Calhoun	Totals	373	23	26	22	31	30	24	23	40	38	36	33	45	2	92	11	13	14	13	16	7	9	7	7	13	17	33	25	32	25	32	7
	Males	188	12	17	7	17	18	10	16	21	13	19	16	22	..	49	6	5	8	6	5	4	3	3	6	6	10	15	14	20	8	17	3
	Females	185	11	9	15	14	12	14	7	19	25	17	17	23	2	43	5	8	6	7	11	3	6	4	1	7	7	18	11	12	17	15	4
Cass	Totals	175	13	13	13	15	14	18	12	16	16	19	15	10	1	39	2	4	5	6	4	5	6	6	2	6	10	8	19	18	9	18	8
	Males	84	7	5	3	6	6	8	6	10	13	8	7	4	1	20	1	2	2	3	1	....	....	2	....	2	4	6	12	7	8	9	5
	Females	91	6	8	10	9	8	10	6	6	3	11	8	6	..	19	1	2	3	3	3	5	6	4	2	4	6	2	7	11	1	9	3

TABLE 61.—CONTINUED.—*Deaths by counties, by sex, by months, and by age, 1889.*

Counties.	Sex.	Year, 1889.	Months, 1889.													Ages in periods of years, 1889.																
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Charlevoix	Totals	40	3	...	2	...	5	2	2	3	10	5	5	3	..	17	2	...	4	...	1	3	2	2	2	1	1	...	2	...	2	...	1
	Males	16	1	...	1	...	3	1	1	...	3	3	1	2	..	5	1	...	1	...	...	3	...	2	...	...	1	...	1	...	2	...	...
	Females	24	2	...	1	...	2	1	1	3	7	2	4	1	..	12	1	...	3	...	1	...	2	...	2	1	...	...	1	...	...	...	1
Cheboygan	Totals	107	4	5	8	6	7	14	6	13	13	11	9	11	..	57	5	3	4	5	3	3	1	2	4	2	2	5	6	1	2	1	1
	Males	57	1	4	4	2	3	10	4	4	7	8	5	5	..	27	3	1	3	1	2	1	...	1	2	2	2	2	6	...	2	1	1
	Females	50	3	1	4	4	4	4	2	9	6	3	4	6	..	30	2	2	1	4	1	2	1	1	2	...	...	3	...	1	...	...	...
Chippewa	Totals	75	4	2	10	3	9	3	10	10	5	7	8	4	..	30	5	3	9	7	2	3	3	4	2	1	...	1	1	2	1	1	...
	Males	41	2	1	6	...	3	1	7	6	2	6	4	3	..	15	4	1	3	4	1	1	2	3	2	...	...	1	1	2	1	...	...
	Females	34	2	1	4	3	6	2	3	4	3	1	4	1	..	15	1	2	6	3	1	2	1	1	...	...	...	...	...	...	...	1	...
Clare	Totals	24	3	...	1	1	2	3	5	...	5	1	1	2	..	17	2	...	...	...	1	...	2	...	...	...	1	...	1	...	...	...	...
	Males	17	3	...	1	...	2	2	3	...	4	1	1	...	..	12	2	...	...	...	...	...	2	...	...	...	1	...	...	...	...	...	...
	Females	7	...	...	...	1	...	1	2	...	1	...	...	2	..	5	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
Clinton	Totals	236	15	14	22	19	12	23	17	24	32	20	17	21	..	58	8	5	4	9	11	11	4	7	8	12	9	8	21	13	23	20	5
	Males	134	10	7	13	12	7	10	9	17	17	13	6	13	..	28	6	1	1	4	7	4	1	2	4	5	7	7	16	8	15	16	2
	Females	102	5	7	9	7	5	13	8	7	15	7	11	8	..	30	2	4	3	5	4	7	3	5	4	7	2	1	5	5	8	4	3
Crawford	Totals	22	...	...	2	6	1	1	3	3	2	2	1	1	..	12	...	...	2	...	1	...	...	2	...	...	1	...	...	...	...	2	2
	Males	10	...	...	...	3	1	...	3	...	...	1	1	1		6	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	2
	Females	12	...	...	2	3	...	1	...	3	2	1	...	...	..	6	...	...	2	...	...	...	...	2	...	...	1	...	...	...	...	1	...

Delta	Totals	155	9	12	6	7	13	14	10	24	21	13	9	16	1	90	9	2	7	8	6	6	4	4	2	4	2	3	3	...	2	1	2
	Males	104	8	8	3	4	8	10	7	13	14	8	8	12	1	54	5	1	6	8	6	3	3	4	1	3	2	2	3	...	1	1	1
	Females	49	1	3	3	3	5	4	3	11	7	5	1	3	..	34	4	1	1	...	...	3	1	...	1	1	...	1	...	..	1	...	1
	Unknown	2	...	1	...	...	...	...	...	...	...	...	...	1	..	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Eaton	Totals	271	17	21	18	26	35	20	13	31	24	27	12	26	1	69	3	9	12	7	18	11	5	9	9	13	12	21	15	19	17	16	6
	Males	131	8	6	12	15	15	10	7	15	11	12	6	13	1	34	...	6	4	3	5	3	2	6	1	6	8	11	11	9	9	7	6
	Females	140	9	15	6	11	20	10	6	16	13	15	6	13	..	35	3	3	8	4	13	8	3	3	8	7	4	10	4	10	8	9	..
Emmet	Totals	105	8	10	11	6	7	10	6	4	13	11	4	11	4	37	5	7	8	2	...	3	3	1	2	5	7	2	2	3	5	4	9
	Males	58	5	7	6	1	5	7	4	2	7	4	1	7	2	15	5	4	5	1	...	1	2	1	1	3	3	2	2	3	3	3	4
	Females	46	3	3	4	5	2	3	2	2	6	7	3	4	2	21	...	3	3	1	...	2	1	...	1	2	4	...	...	...	2	1	5
	Unknown	1	...	...	1	...	...	...	...	...	...	...	...	...	..	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Genesee	Totals	327	22	26	21	31	21	15	26	24	41	24	32	42	2	63	10	10	8	17	15	9	12	11	11	8	9	11	27	26	39	36	5
	Males	167	7	12	9	17	8	7	14	10	21	17	20	23	2	36	7	7	4	10	4	3	5	4	5	3	6	6	14	11	22	18	2
	Females	160	15	14	12	14	13	8	12	14	20	7	12	19	..	27	3	3	4	7	11	6	7	7	6	5	3	5	13	15	17	18	3
Gladwin	Totals	13	...	1	...	...	1	...	2	5	2	...	...	2	..	8	1	...	1	...	...	...	...	...	...	...	...	...	...	1	1	1	...
	Males	3	...	...	...	...	...	...	...	1	1	...	...	1	..	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...
	Females	10	...	1	...	...	1	...	2	4	1	...	...	1	..	8	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Gogebic	Totals	112	4	3	5	10	8	6	17	11	10	11	9	17	1	37	7	...	2	4	15	17	11	10	4	1	...	...	...	1	...	...	3
	Males	78	2	3	3	7	7	2	13	7	5	7	9	13	..	16	3	...	1	2	12	17	11	8	4	1	...	...	...	1	...	...	2
	Females	34	2	...	2	3	1	4	4	4	5	4	...	4	1	21	4	...	1	2	3	...	...	2	...	...	...	...	...	...	...	...	1
Gd. Traverse	Totals	113	9	7	6	5	11	12	8	18	10	5	10	12	..	34	1	1	3	3	7	8	2	11	3	14	6	3	5	...	2	6	4
	Males	60	5	3	4	3	6	7	4	8	3	1	6	10	..	20	...	1	3	1	5	3	...	4	...	7	5	1	3	...	1	5	1
	Females	53	4	4	2	2	5	5	4	10	7	4	4	2	..	14	1	...	...	2	2	5	2	7	3	7	1	2	2	...	1	1	3
Gratiot	Totals	188	7	8	17	12	15	6	24	28	32	13	13	12	1	74	4	3	10	7	8	8	6	5	4	8	6	4	5	9	14	10	3
	Males	96	6	4	8	8	4	4	13	13	15	7	6	8	..	36	4	3	5	1	6	3	2	2	3	6	4	2	3	5	5	5	1
	Females	92	1	4	9	4	11	2	11	15	17	6	7	4	1	38	...	...	5	6	2	5	4	3	1	2	2	2	2	4	9	5	2

TABLE 61.—CONTINUED.—*Deaths by counties, by sex, by months, and by age, 1889.*

Counties.	Sex.	Year, 1889.	Months, 1889.													Ages in period of years, 1889.																	
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Hillsdale	Totals	218	9	21	17	13	16	10	18	21	23	26	26	18	..	38	3	5	6	12	11	6	8	6	12	12	8	17	15	19	9	26	5
	Males	113	3	6	8	8	5	5	11	13	11	16	14	13	..	23	1	1	1	5	5	1	1	2	7	5	4	5	10	14	7	19	2
	Females	105	6	15	9	5	11	5	7	8	12	10	12	5	..	15	2	4	5	7	6	5	7	4	5	7	4	12	5	5	2	7	3
Houghton	Totals	395	33	15	35	32	21	23	47	45	47	25	27	45	..	233	17	10	10	21	13	11	12	7	14	9	6	8	10	3	5	4	2
	Males	234	21	6	20	18	12	11	29	25	29	18	19	26	..	134	13	5	5	15	7	6	5	5	8	6	5	5	5	2	4	2	2
	Females	160	12	9	15	14	9	12	17	20	18	7	8	19	..	98	4	5	5	6	6	5	7	2	6	3	1	3	5	1	1	2	...
	Unknown	1	...	...	...	...	...	...	1	...	...	...	...	...	..	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Huron	Totals	234	14	16	15	18	13	18	14	25	31	27	18	25	..	103	17	9	8	13	9	9	13	5	6	4	9	5	5	5	7	2	5
	Males	130	9	10	6	8	8	11	7	16	18	15	7	15	..	53	10	6	4	9	4	3	6	2	3	4	8	2	3	5	2	2	4
	Females	104	5	6	9	10	5	7	7	9	13	12	11	10	..	50	7	3	4	4	5	6	7	3	3	...	1	3	2	...	5	...	1
Ingham	Totals	331	30	25	23	26	21	14	19	35	43	33	36	25	1	91	14	11	9	19	13	11	10	14	9	16	13	19	17	21	20	21	3
	Males	170	16	10	11	12	12	5	13	20	20	20	20	10	1	49	8	5	3	10	3	5	7	5	5	13	4	9	9	11	9	14	1
	Females	159	14	15	12	13	9	8	6	15	23	13	16	15	..	40	6	6	6	9	10	6	3	9	4	3	9	10	8	10	11	7	2
	Unknown	2	...	...	...	1	...	1	...	...	...	...	...	...	..	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ionia	Totals	258	27	19	14	23	21	13	20	26	24	20	29	22	..	59	4	3	6	17	11	8	10	5	14	6	22	19	18	22	14	18	2
	Males	132	17	16	6	7	10	9	11	10	10	12	15	9	..	33	2	...	4	6	4	3	3	3	5	4	14	13	8	10	10	9	1
	Females	126	10	3	8	16	11	4	9	16	14	8	14	13	..	26	2	3	2	11	7	5	7	2	9	2	8	6	10	12	4	9	1
Iosco	Totals	131	7	9	9	7	5	13	11	16	16	16	12	9	1	79	4	3	3	5	12	4	3	3	4	1	1	3	...	1	...	1	4
	Males	73	2	6	5	4	4	5	6	7	8	11	5	9	1	43	1	1	2	3	7	3	...	2	4	...	1	2	...	1	...	...	3
	Females	58	5	3	4	3	1	8	5	9	8	5	7	...	..	36	3	2	1	2	5	1	3	1	...	1	...	1	...	...	...	1	1

Iron	Totals	18	1	...	1	1	...	3	4	2	1	2	...	3	..	12	...	...	...	1	3	1	...	...	1	...	...	...	...	...	...	...	...
	Males	13	...	...	..	1	...	3	2	2	1	1	...	3	..	9	...	...	...	...	2	1	...	...	1	...	...	...	...	...	...	...	...
	Females	5	1	...	1	...	...	..	2	...	...	1	...	...	..	3	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
Isabella	Totals	143	6	8	6	9	11	8	9	24	23	17	9	11	2	51	3	9	8	7	8	3	8	4	2	5	7	4	6	7	2	3	6
	Males	74	4	3	3	1	5	3	7	12	16	8	4	7	2	24	...	6	4	4	4	...	3	3	...	4	4	3	5	4	1	2	3
	Females	69	2	5	3	8	6	5	2	12	8	9	5	4	..	27	3	3	4	3	4	3	5	1	2	1	3	1	1	3	1	1	3
Jackson	Totals	439	42	29	36	37	38	30	18	36	39	41	42	51	..	116	29	11	11	22	15	15	12	16	21	17	7	27	30	26	15	40	9
	Males	224	24	13	20	15	20	14	12	16	19	24	15	32	..	57	10	5	2	11	8	9	5	7	13	7	5	17	19	13	8	20	8
	Females	215	18	16	16	22	18	16	6	20	20	17	27	19	..	59	19	6	9	11	7	6	7	9	8	10	2	10	11	13	7	20	1
Kalamazoo	Totals	431	30	31	41	36	41	32	31	50	29	38	36	35	1	110	21	6	12	25	11	23	11	15	21	14	24	32	19	21	25	37	4
	Males	234	18	17	19	23	21	15	21	25	19	20	23	13	..	58	13	4	9	13	8	10	4	9	12	7	8	15	12	12	13	24	3
	Females	197	12	14	22	13	20	17	10	25	10	18	13	22	1	52	8	2	3	12	3	13	7	6	9	7	16	17	7	9	12	13	1
Kalkaska	Totals	50	2	4	6	1	4	5	2	5	4	2	7	3	5	15	2	...	2	3	4	3	1	1	3	2	...	2	2	1	1	...	8
	Males	33	1	3	3	1	2	2	2	5	1	2	7	1	3	11	2	...	...	2	3	2	1	1	2	1	...	1	1	...	1	...	5
	Females	17	1	1	3	...	2	3	..	...	3	...	...	2	2	4	..	..	2	1	1	1	...	..	1	1	...	1	1	1	...	...	3
Kent	Totals	1,128	80	64	83	70	61	92	71	129	115	113	119	129	2	413	64	25	41	41	38	45	38	31	43	29	38	50	68	62	43	51	8
	Males	627	40	34	48	34	39	55	46	68	63	55	62	81	2	227	27	12	16	18	24	19	23	19	26	21	23	23	45	42	27	30	5
	Females	499	40	30	35	36	22	37	24	61	52	58	56	48	..	184	37	13	25	23	14	26	15	12	17	8	15	27	23	20	16	21	3
	Unknown	2	...	...	..	...	...	...	1	...	...	...	1	...	..	2	..	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...
Keweenaw	Totals	48	4	3	3	5	3	6	5	4	3	4	5	3	..	25	3	...	1	3	2	2	...	1	1	4	2	...	1	3	...	...	...
	Males	37	4	2	2	4	2	4	4	3	2	4	4	2	..	19	2	...	1	2	1	2	...	1	1	4	...	...	1	3	...	...	...
	Females	11	...	1	1	1	1	2	1	1	1	...	1	1	..	6	1	...	...	1	1	...	...	..	...	...	2	...	...	...	...	...	...
Lake	Totals	39	2	4	5	4	2	3	..	3	5	6	1	4	..	15	3	1	2	1	2	2	1	3	...	1	1	...	2	1	2	...	2
	Males	25	2	2	4	2	2	2	..	3	2	3	1	2	..	9	3	1	1	...	2	1	...	1	...	1	...	...	2	1	1	...	2
	Females	14	...	2	1	2	..	1	..	...	3	3	...	2	..	6	..	...	1	1	...	1	1	2	...	...	1	...	...	...	1	...	...
Lapeer	Totals	229	8	11	19	21	24	9	18	23	33	27	20	16	..	70	10	7	5	11	7	8	10	8	11	5	10	9	11	16	18	12	1
	Males	122	3	6	8	12	12	7	9	13	16	14	11	11	..	43	6	6	2	1	3	2	5	4	3	4	6	6	4	12	7	8	...
	Females	107	5	5	11	9	12	2	9	10	17	13	9	5	..	27	4	1	3	10	4	6	5	4	8	1	4	3	7	4	11	4	1

TABLE 61.—CONTINUED.—*Deaths by counties, by sex, by months, and by age, 1889.*

Counties.	Sex.	Year, 1889.	Months, 1889.													Ages in period of years, 1889.																
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Hillsdale	Totals	218	9	21	17	13	16	10	18	21	23	26	26	18	..	38	3	5	6	12	11	6	8	6	12	12	8	17	15	19	9	26	5
	Males	113	3	6	8	8	5	5	11	13	11	16	14	13	..	23	1	1	1	5	5	1	1	2	7	5	4	5	10	14	7	19	2
	Females	105	6	15	9	5	11	5	7	8	12	10	12	5	..	15	2	4	5	7	6	5	7	4	5	7	4	12	5	5	2	7	3
Houghton	Totals	395	33	15	35	32	21	23	47	45	47	25	27	45	..	233	17	10	10	21	13	11	12	7	14	9	6	8	10	3	5	4	2
	Males	234	21	6	20	18	12	11	29	25	29	18	19	26	..	134	13	5	5	15	7	6	5	5	8	6	5	5	5	2	4	2	2
	Females	160	12	9	15	14	9	12	17	20	18	7	8	19	..	98	4	5	5	6	6	5	7	2	6	3	1	3	5	1	1	2	...
	Unknown	1	...	...	...	...	...	...	1	...	...	...	...	...	..	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Huron	Totals	234	14	16	15	18	13	18	14	25	31	27	18	25	..	103	17	9	8	13	9	9	13	5	6	4	9	5	5	5	7	2	5
	Males	130	9	10	6	8	8	11	7	16	18	15	7	15	..	53	10	6	4	9	4	3	6	2	3	4	8	2	3	5	2	2	4
	Females	104	5	6	9	10	5	7	7	9	13	12	11	10	..	50	7	3	4	4	5	6	7	3	3	...	1	3	2	...	5	...	1
Ingham	Totals	331	30	25	23	26	21	14	19	35	43	33	36	25	1	91	14	11	9	19	13	11	10	14	9	16	13	19	17	21	20	21	3
	Males	170	16	10	11	12	12	5	13	20	20	20	20	10	1	49	8	5	3	10	3	5	7	5	5	13	4	9	9	11	9	14	1
	Females	159	14	15	12	13	9	8	6	15	23	13	16	15	..	40	6	6	6	9	10	6	3	9	4	3	9	10	8	10	11	7	2
	Unknown	2	...	...	...	1	...	1	...	...	...	...	...	...	..	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ionia	Totals	258	27	19	14	23	21	13	20	26	24	20	29	22	..	59	4	3	6	17	11	8	10	5	14	6	22	19	18	22	14	18	2
	Males	132	17	16	6	7	10	9	11	10	10	12	15	9	..	33	2	...	4	6	4	3	3	3	5	4	14	13	8	10	10	9	1
	Females	126	10	3	8	16	11	4	9	16	14	8	14	13	..	26	2	3	2	11	7	5	7	2	9	2	8	6	10	12	4	9	1
Iosco	Totals	131	7	9	9	7	5	13	11	16	16	16	12	9	1	79	4	3	3	5	12	4	3	3	4	1	1	3	...	1	...	1	4
	Males	73	2	6	5	4	4	5	6	7	8	11	5	9	1	43	1	1	2	3	7	3	...	2	4	...	1	2	...	1	...	...	3
	Females	58	5	3	4	3	1	8	5	9	8	5	7	...	..	36	3	2	1	2	5	1	3	1	...	1	...	1	...	...	...	1	1

Iron	Totals	18	1	...	1	1	..	3	4	2	1	2	...	3	..	12	...	...	...	1	3	1	...	...	1	...	...	...	...	...	...	...	..
	Males	13	...	...	...	1	...	3	2	2	1	1	...	3	..	9	...	...	...	...	2	1	...	...	1	...	...	...	...	...	...	...	..
	Females	5	1	...	1	...	..	...	2	...	...	1	...	...	..	3	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	..
Isabella	Totals	143	6	8	6	9	11	8	9	24	23	17	9	11	2	51	3	9	8	7	8	3	8	4	2	5	7	4	6	7	2	3	6
	Males	74	4	3	3	1	5	3	7	12	16	8	4	7	2	24	...	6	4	4	4	...	3	3	...	4	4	3	5	4	1	2	3
	Females	69	2	5	3	8	6	5	2	12	8	9	5	4	..	27	3	3	4	3	4	3	5	1	2	1	3	1	1	3	1	1	3
Jackson	Totals	439	42	29	36	37	38	30	18	36	39	41	42	51	..	116	29	11	11	22	15	15	12	16	21	17	7	27	30	26	15	40	9
	Males	224	24	13	20	15	20	14	12	16	19	24	15	32	..	57	10	5	2	11	8	9	5	7	13	7	5	17	19	13	8	20	8
	Females	215	18	16	16	22	18	16	6	20	20	17	27	19	..	59	19	6	9	11	7	6	7	9	8	10	2	10	11	13	7	20	1
Kalamazoo	Totals	431	30	31	41	36	41	32	31	50	29	38	36	35	1	110	21	6	12	25	11	23	11	15	21	14	24	32	19	21	25	37	4
	Males	234	18	17	19	23	21	15	21	25	19	20	23	13	..	58	13	4	9	13	8	10	4	9	12	7	8	15	12	12	13	24	3
	Females	197	12	14	22	13	20	17	10	25	10	18	13	22	1	52	8	2	3	12	3	13	7	6	9	7	16	17	7	9	12	13	1
Kalkaska	Totals	50	2	4	6	1	4	5	2	5	4	2	7	3	5	15	2	...	2	3	4	3	1	1	3	2	...	2	2	1	1	...	8
	Males	33	1	3	3	1	2	2	2	5	1	2	7	1	3	11	2	...	...	2	3	2	1	1	2	1	...	1	1	...	1	...	5
	Females	17	1	1	3	...	2	3	...	...	3	...	...	2	2	4	...	...	2	1	1	1	...	...	1	1	...	1	1	1	...	...	3
Kent	Totals	1,128	80	64	83	70	61	92	71	129	115	113	119	129	2	413	64	25	41	41	38	45	38	31	43	29	38	50	68	62	43	51	8
	Males	627	40	34	48	34	39	55	46	68	63	55	62	81	2	227	27	12	16	18	24	19	23	19	26	21	23	23	45	42	27	30	5
	Females	499	40	30	35	36	22	37	24	61	52	58	56	48	..	184	37	13	25	23	14	26	15	12	17	8	15	27	23	20	16	21	3
	Unknown	2	...	...	...	...	...	...	1	...	...	...	1	...	..	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Keweenaw	Totals	48	4	3	3	5	3	6	5	4	3	4	5	3	..	25	3	...	1	3	2	2	...	1	1	4	2	...	1	3	...	...	...
	Males	37	4	2	2	4	2	4	4	3	2	4	4	2	..	19	2	...	1	2	1	2	...	1	1	4	...	...	1	3	...	...	...
	Females	11	..	1	1	1	1	2	1	1	1	...	1	1	..	6	1	...	...	1	1	...	...	...	...	...	2	...	...	...	...	...	...
Lake	Totals	39	2	4	5	4	2	3	...	3	5	6	1	4	..	15	3	1	2	1	2	2	1	3	...	1	1	...	2	1	2	...	2
	Males	25	2	2	4	2	2	2	...	3	2	3	1	2	..	9	3	1	1	...	2	1	...	1	...	1	...	...	2	1	1	...	2
	Females	14	..	2	1	2	..	1	...	...	3	3	...	2	..	6	...	...	1	1	...	1	1	2	...	...	1	...	...	...	1	...	...
Lapeer	Totals	229	8	11	19	21	24	9	18	23	33	27	20	16	..	70	10	7	5	11	7	8	10	8	11	5	10	9	11	16	18	12	1
	Males	122	3	6	8	12	12	7	9	13	16	14	11	11	..	43	6	6	2	1	3	2	5	4	3	4	6	6	4	12	7	8	...
	Females	107	5	5	11	9	12	2	9	10	17	13	9	5	..	27	4	1	3	10	4	6	5	4	8	1	4	3	7	4	11	4	1

TABLE 61.—CONTINUED.—*Deaths by counties, by sex, by months, and by age, 1889.*

Counties.	Sex.	Year, 1889.	Months, 1889.													Ages in periods of years, 1889.																	
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70	70 to 75.	75 to 80.	80 and over.	Unknown.
Leelanaw	Totals	93	2	4	6	7	5	6	8	14	13	15	5	8	..	43	3	6	1	5	3	6	2	2	....	1	....	4	1	7	3	6	...
	Males	54	2	2	3	5	2	2	4	8	8	8	4	6	..	27	2	5	1	1	....	3	1	2	....	....	....	1	1	5	2	3	...
	Females	39	....	2	3	2	3	4	4	6	5	7	1	2	..	16	1	1	....	4	3	3	1	....	....	1	....	3	...	2	1	3	...
Lenawee	Totals	432	28	18	46	39	38	35	42	45	32	35	33	40	1	89	11	8	13	23	19	16	11	19	15	15	18	26	38	32	35	42	2
	Males	223	12	8	20	23	23	24	23	24	12	17	22	15	..	45	3	4	6	11	9	8	4	10	5	10	10	13	27	19	17	22	...
	Females	209	16	10	26	16	15	11	19	21	20	18	11	25	1	44	8	4	7	12	10	8	7	9	10	5	8	13	11	13	18	20	2
Livingston	Totals	203	14	15	16	19	14	19	16	18	13	26	15	18	..	41	8	6	8	7	11	6	5	4	8	4	10	16	13	19	14	18	5
	Males	110	7	8	7	11	9	10	9	8	8	16	9	8	..	28	2	3	3	4	5	2	3	2	3	4	6	10	7	7	6	10	5
	Females	93	7	7	9	8	5	9	7	10	5	10	6	10	..	13	6	3	5	3	6	4	2	2	5	....	4	6	6	12	8	8	...
Luce	Totals	11	1	....	2	1	....	....	2	1	1	1	1	1	..	8	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Males	4	....	....	2	....	....	....	1	....	....	....	....	1	..	3	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Females	7	1	....	....	1	....	....	1	1	1	1	1	....	..	5	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
Mackinac	Totals	54	1	3	2	4	7	5	1	9	3	7	4	4	4	25	1	1	4	2	7	3	1	....	1	2	1	....	1	1	1	....	3
	Males	29	1	1	....	3	4	5	....	2	1	2	4	2	4	11	1	....	1	2	5	2	1	....	1	1	1	....	1	1	....	....	1
	Females	25	....	2	2	1	3	....	1	7	2	5	....	2	..	14	....	1	3	....	2	1	....	....	....	1	....	....	....	....	1	....	2
Macomb	Totals	367	16	26	25	35	27	27	26	48	42	26	41	28	..	108	12	6	16	21	16	13	9	10	16	12	19	22	16	22	28	21	...
	Males	177	10	12	6	18	11	13	13	23	27	12	23	9	..	52	2	3	8	11	5	5	3	3	7	6	8	12	10	14	18	10	...
	Females	190	6	14	19	17	16	14	13	25	15	14	18	19	.	56	10	3	8	10	11	8	6	7	9	6	11	10	6	8	10	11	...

Manistee	Totals	212	8	9	19	16	15	23	22	13	24	24	20	19	..	108	15	6	7	7	9	6	7	3	9	3	7	3	7	6	4	3	2
	Males	122	6	5	8	10	10	14	16	7	15	13	8	10	..	63	6	3	2	3	4	3	3	2	7	2	6	3	5	5	2	2	1
	Females	90	2	4	11	6	5	9	6	6	9	11	12	9	..	45	9	3	5	4	5	3	4	1	2	1	1	...	2	1	2	1	1
Manitou	Totals	8	1	2	2	....	1	....	1	1	....	....	....	....	..	2	....	1	....	....	....	....	....	....	1	....	1	1	...	1	...	1	...
	Males	4	....	1	1	....	....	....	1	1	....	....	....	....	..	1	....	....	....	....	....	....	....	....	1	....	1	...	...	1	...	....	...
	Females	4	1	1	1	....	1	....	....	....	....	....	....	....	..	1	....	1	....	....	....	....	....	....	....	....	....	1	...	...	...	1	...
Marquette	Totals	429	21	27	28	33	26	35	38	68	47	39	30	37	..	214	25	3	17	31	31	17	13	12	13	10	9	3	5	5	...	7	14
	Males	270	12	21	17	18	15	25	21	38	26	33	23	21	..	117	16	2	10	27	25	14	9	7	7	4	7	1	3	3	...	4	14
	Females	159	9	6	11	15	11	10	17	30	21	6	7	16	..	97	9	1	7	4	6	3	4	5	6	6	2	2	2	2	...	3	...
Mason	Totals	169	6	5	13	16	20	18	12	20	12	14	13	20	..	70	16	4	9	10	3	7	8	3	6	6	7	6	5	2	2	3	2
	Males	92	4	....	5	8	12	10	6	13	8	10	6	10	..	31	11	1	7	5	2	2	2	2	2	5	7	6	4	1	1	2	1
	Females	77	2	5	8	8	8	8	6	7	4	4	7	10	..	39	5	3	2	5	1	5	6	1	4	1	....	...	1	1	1	1	1
Mecosta	Totals	145	8	3	11	15	16	7	9	16	22	17	11	10	..	51	7	4	4	7	7	12	7	2	3	5	6	8	4	7	6	4	1
	Males	86	5	1	7	9	12	5	4	5	13	11	5	9	..	29	5	3	2	4	6	8	6	....	1	4	4	6	..	3	2	3	...
	Females	59	3	2	4	6	4	2	5	11	9	6	6	1	..	22	2	1	2	3	1	4	1	2	2	1	2	2	4	4	4	1	1
Menominee	Totals	350	22	20	22	15	10	30	36	47	38	34	37	37	2	222	16	8	8	11	19	9	11	4	6	5	7	2	5	5	4	2	6
	Males	197	7	10	13	10	5	12	19	31	21	17	26	26	..	111	7	5	4	9	16	5	8	3	6	4	5	2	2	3	2	1	4
	Females	141	14	10	8	5	4	15	16	16	15	17	10	9	2	99	9	3	4	2	3	4	3	1	....	1	2	...	3	2	2	1	2
	Unknown	12	1	....	1	....	1	3	1	....	2	....	1	2	..	12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
Midland	Totals	70	2	1	2	9	2	9	3	11	10	5	9	7	..	34	....	1	2	4	5	1	2	3	1	2	2	1	2	...	2	5	3
	Males	32	1	....	1	3	1	3	1	6	6	1	6	3	..	17	....	1	1	1	1	....	1	2	1	....	....	....	2	...	...	4	1
	Females	38	1	1	1	6	1	6	2	5	4	4	3	4	..	17	....	....	1	3	4	1	1	1	....	2	2	1	...	...	2	1	2
Missaukee	Totals	29	1	1	4	5	2	3	1	2	4	....	1	4	1	14	1	....	2	1	....	1	1	2	....	....	1	2	...	2	...	....	2
	Males	14	....	....	4	3	1	2	....	1	1	....	....	2	..	8	....	....	....	....	....	1	....	1	....	....	1	1	...	1	...	....	1
	Females	15	1	1	....	2	1	1	1	1	3	....	1	2	1	6	1	....	2	1	....	....	1	1	....	....	....	1	...	1	...	....	1
Monroe	Totals	272	20	19	29	14	20	13	19	28	37	23	25	24	1	83	9	9	8	15	9	16	4	12	2	7	13	17	13	18	18	19	...
	Males	142	11	10	13	7	9	9	6	14	16	14	16	16	1	42	4	3	3	11	6	7	3	3	1	5	5	7	6	11	15	10	...
	Females	130	9	9	16	7	11	4	13	14	21	9	9	8	..	41	5	6	5	4	3	9	1	9	1	2	8	10	7	7	3	9	...

TABLE 61.—CONTINUED.—*Deaths by counties, by sex, by months, and by age.*

Counties.	Sex.	Year, 1889.	Months, 1889.													Ages in periods of years, 1889.																	
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Montcalm	Totals	265	19	23	25	18	21	17	18	22	43	20	20	19	..	95	10	11	10	9	12	10	15	11	5	9	5	14	14	9	8	11	7
	Males	129	9	13	12	7	15	6	12	11	21	9	6	8	..	46	4	7	4	5	5	2	5	6	2	5	3	10	8	4	3	5	5
	Females	136	10	10	13	11	6	11	6	11	22	11	14	11	..	49	6	4	6	4	7	8	10	5	3	4	2	4	6	5	5	6	2
Montmorency	Totals	25	1	1	3	4	3	3	2	2	2	1	2	1	..	17	....	2	....	1	1	....	2	1	1	....	....	....	....	....	....	....	....
	Males	12	1	1	....	2	1	2	....	1	2	....	2	....	..	9	....	1	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....
	Females	13	....	....	3	2	2	1	2	1	....	1	....	1	..	8	....	1	....	1	....	....	2	1	....	....	....	....	....	....	....	....	....
Muskegon	Totals	444	24	22	35	42	25	25	28	57	31	56	50	47	2	221	32	11	10	20	15	14	13	6	7	12	13	13	17	21	6	10	3
	Males	254	15	14	18	26	13	14	17	35	20	33	25	23	1	136	12	4	4	14	7	6	8	4	4	7	7	8	12	10	2	7	2
	Females	190	9	8	17	16	12	11	11	22	11	23	25	24	1	85	20	7	6	6	8	8	5	2	3	5	6	5	5	11	4	3	1
Newaygo	Totals	116	8	4	10	8	11	10	8	14	12	8	12	11	..	45	3	4	10	9	3	1	5	2	4	2	2	6	2	4	3	4	7
	Males	67	5	4	8	4	6	5	4	8	4	5	8	6	..	28	3	2	4	3	3	1	3	....	1	2	2	2	....	2	2	3	5
	Females	49	3	....	2	4	5	5	4	6	8	3	4	5	..	17	....	2	6	6	....	....	2	2	3	....	....	4	2	2	....	1	2
Oakland	Totals	397	32	28	33	46	31	20	24	34	44	39	27	38	1	80	2	7	11	17	15	20	13	13	18	15	17	24	35	34	34	39	3
	Males	223	20	16	18	25	17	12	11	20	25	23	14	22	..	47	1	3	2	9	4	9	5	7	10	10	7	19	14	23	21	30	2
	Females	173	12	12	15	21	14	8	13	14	19	16	13	16	..	32	1	4	9	8	11	11	8	6	8	5	10	5	21	11	13	9	1
	Unknown	1	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Oceana	Totals	113	11	6	9	13	4	13	12	16	9	12	4	4	..	51	....	....	4	3	3	4	6	1	7	5	5	6	8	6	2	2	....
	Males	60	4	5	3	9	2	7	4	7	6	8	2	3	..	23	....	....	2	1	1	1	3	1	3	5	4	3	6	4	1	2	....
	Females	53	7	1	6	4	2	6	8	9	3	4	2	1	..	28	....	....	2	2	2	3	3	....	4	....	1	3	2	2	1	....	....

Ogemaw	Totals	25	3	2	2	1	1	2	2	4	2	1	2	2	1	9	1	3	1	1	1	2	4			1				1	1		
	Males	13	2	1	1	1			1	1	2	1	1	1	1	4	1	1	1	1	1		2							1	1		
	Females	12	1	1	1		1	2	1	3			1	1		5		2				2	2			1							
Ontonagon	Totals	34	2	1	5		1	3	1	5	6	6	2	2		15	5					1	1		1	1	1	2	3	1		3	
	Males	21	2		3		1	2	1	4	3	4	1			9	5					1				1		2	2	1			
	Females	12		1	2					1	3	2	1	2		5							1		1		1		1			3	
	Unknown	1						1								1																	
Osceola	Totals	93	11	5	5	9	5	4	10	15	2	7	9	10	1	34	1	4	3	4	4	6	6	5	2	1	1	6	3	3	6	2	2
	Males	49	7	2	2	4	4	4	1	9	1	4	6	5		17	1	3	2	1	1	3	2	3	1	1		4	2	2	4		2
	Females	44	4	3	3	5	1		9	6	1	3	3	5	1	17		1	1	3	3	3	4	2	1		1	2	1	1	2	2	
Oscoda	Totals	18	3			1				4	2	4	3	1		2	1	1	1	3	1	2	2		1	1							3
	Males	13	3			1				1	2	3	2	1			1		1	3	1	1	2		1	1							2
	Females	5								3		1	1			2		1				1											1
Otsego	Totals	19			1	2	2	1	3	3		4	3			9	1	1		3			1		1		1	1			1		
	Males	8				1	1		2			2	2			5				2											1		
	Females	11			1	1	1	1	1	3		2	1			4	1	1		1			1		1		1	1					
Ottawa	Totals	375	23	24	29	28	37	28	26	49	44	33	23	26	5	133	27	13	13	12	17	11	11	12	8	13	6	17	16	25	16	17	8
	Males	212	12	15	11	17	20	17	17	31	24	20	13	12	3	71	16	8	3	6	8	6	3	5	8	10	4	8	12	15	12	10	7
	Females	160	11	9	18	11	17	11	6	18	20	13	10	14	2	59	11	5	10	6	9	5	8	7		3	2	9	4	10	4	7	1
	Unknown	3							3							3																	
Presque Isle	Totals	46	3	3	5	4	3	3	4	4	4	7	3	1	2	20	4	2	2	3	1	3	2	2		2	1		2		1	1	
	Males	29	1	3	3	4	1	2	1	1	4	5	2	1	1	10	4	1	2	2		2	1	1		2	1		2		1		
	Females	17	2		2		2	1	3	3		2	1		1	10		1		1	1	1	1	1								1	
Roscommon	Totals	7				1			2		1			3		3	2		1			1											
	Males	3				1			1					1			1		1			1											
	Females	4							1		1			2		3	1																

TABLE 61.—CONTINUED.—*Deaths by counties, by sex, and by age for 1889.*

Counties.	Sex.	Year, 1889.	Months, 1889.													Ages in periods of years, 1889.																	
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Saginaw	Totals	998	94	50	99	74	52	49	67	109	97	99	102	104	2	406	80	31	36	39	51	41	36	39	27	36	21	33	38	29	17	23	15
	Males	560	47	26	59	41	31	25	28	69	53	59	62	58	2	233	40	13	21	21	30	25	18	18	17	23	11	18	25	16	10	10	11
	Females	438	47	24	40	33	21	24	39	40	44	40	40	46	..	173	40	18	15	18	21	16	18	21	10	13	10	15	13	13	7	13	4
Sanilac	Totals	264	16	23	24	25	19	15	14	31	30	27	21	17	2	100	12	5	12	16	15	12	11	4	6	6	5	5	11	9	10	16	9
	Males	136	7	15	16	11	8	8	4	19	18	11	9	10	..	55	7	3	5	6	5	6	2	3	2	3	3	3	8	4	6	12	3
	Females	128	9	8	8	14	11	7	10	12	12	16	12	7	2	45	5	2	7	10	10	6	9	1	4	3	2	2	3	5	4	4	6
Schoolcraft	Totals	36	2	2	5	....	4	1	1	5	8	3	1	4	..	18	4	2	1	2	....	1	3	3	....	1	1	....	....	....	....	....	....
	Males	23	1	2	2	....	3	1	1	4	5	2	....	2	..	10	4	2	1	....	....	....	3	2	....	1	....	....	....	....	....	....	....
	Females	13	1	....	3	....	1	....	....	1	3	1	1	2	..	8	....	....	....	2	....	1	....	1	....	....	1	....	....	....	....	....	....
Shiawassee	Totals	168	8	13	8	8	14	7	11	20	13	20	23	23	..	48	6	1	9	16	5	14	8	6	9	5	5	6	6	7	7	10	..
	Males	87	3	6	5	4	5	4	6	8	9	13	10	14	..	24	3	....	5	7	3	4	5	3	3	2	3	5	2	4	7	7	..
	Females	81	5	7	3	4	9	3	5	12	4	7	13	9	..	24	3	1	4	9	2	10	3	3	6	3	2	1	4	3	..	3	..
St. Clair	Totals	450	28	29	24	34	36	38	33	57	49	40	38	42	2	168	16	11	23	22	27	19	20	18	10	7	18	15	9	15	19	25	8
	Males	235	14	17	12	19	18	24	14	36	23	21	18	18	1	96	6	7	10	11	16	6	7	8	4	4	7	9	7	7	12	13	5
	Females	215	14	12	12	15	18	14	19	21	26	19	20	24	1	72	10	4	13	11	11	13	13	10	6	3	11	6	2	8	7	12	3
St. Joseph	Totals	239	20	8	27	22	18	15	16	18	22	26	21	26	..	43	7	4	6	8	10	9	9	4	4	16	13	23	18	24	16	25	..
	Males	123	11	6	13	13	10	7	8	11	11	10	11	12	..	23	2	2	2	4	3	3	3	2	1	7	9	14	9	15	10	14	..
	Females	115	9	2	13	9	8	8	8	7	11	16	10	14	..	19	5	2	4	4	7	6	6	2	3	9	4	9	9	9	6	11	..
	Unknown	1	....	..	1	....	....	....	....	....	....	....	....	....	..	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Tuscola	Totals	281	27	20	29	19	19	22	23	32	27	22	15	26	..	105	12	11	10	13	4	16	11	10	9	9	9	7	13	16	8	14	4
	Males	159	9	11	19	12	11	12	15	16	19	9	11	15	..	65	8	5	4	4	....	4	4	6	4	6	4	7	7	14	4	10	3
	Females	122	18	9	10	7	8	10	8	16	8	13	4	11	..	40	4	6	6	9	4	12	7	4	5	3	5	....	6	2	4	4	1

Van Buren	Totals	281	20	24	27	14	26	19	20	26	27	29	21	28	..	68	6	9	12	16	11	7	8	5	11	17	12	13	21	15	25	17	8
	Males	135	7	9	15	8	11	8	11	15	12	14	13	12	..	33	3	5	4	9	2	2	5	2	3	9	7	7	13	3	15	8	5
	Females	146	13	15	12	6	15	11	9	11	15	15	8	16	..	35	3	4	8	7	9	5	3	3	8	8	5	6	8	12	10	9	3
Washtenaw	Totals	344	36	22	26	26	42	22	24	23	25	41	27	30	..	66	14	14	19	13	10	13	8	11	13	13	11	15	14	26	29	46	9
	Males	185	23	11	14	14	20	9	15	7	13	27	12	20	..	33	5	3	14	6	5	5	5	7	9	8	5	6	9	15	19	26	5
	Females	159	13	11	12	12	22	13	9	16	12	14	15	10	..	33	9	11	5	7	5	8	3	4	4	5	6	9	5	11	10	20	4
Wayne	Totals	4,005	303	268	385	312	287	262	440	394	316	324	301	409	4	1868	208	92	125	166	162	141	147	142	134	110	113	130	128	118	96	101	24
	Males	2,153	160	143	192	176	156	130	249	220	161	183	159	223	1	963	105	44	59	91	93	72	87	82	73	74	74	67	81	67	56	54	11
	Females	1,844	142	124	192	136	131	132	191	174	153	139	141	186	3	897	103	48	66	75	69	69	60	60	61	36	39	63	47	51	40	47	13
	Unknown	8	1	1	1	....	....	....	....	....	2	2	1	....	..	8	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Wexford	Totals	77	5	3	6	6	5	3	7	13	9	5	3	12	..	31	....	4	6	7	3	1	1	1	2	4	....	4	4	3	5	1	....
	Males	39	1	2	2	1	2	1	5	7	7	3	1	7	..	14	....	....	5	4	2	1	....	....	1	1	....	1	3	2	4	1	....
	Females	38	4	1	4	5	3	2	2	6	2	2	2	5	..	17	....	4	1	3	1	....	1	1	1	3	....	3	1	1	1	....	....

COLOR OF DECEDENTS IN MICHIGAN IN 1889.

In Table 62 are given the deaths of 1889 by color, with certain percentages and comparisons. The last column shows the death-rate for the different classes. It is found to be the greatest for the females of the black race, while for 1888 it was the highest for the black males. The death-rate for the whites is the same as the average for all colors, and, as usual, that for the mulattoes is the lowest of any in the table.

TABLE 62.—*Deaths returned for the year 1889, distinguishing the color by number and proportion of each sex, and by sex, the per cent of decedents of each color to total of all colors, and the per cent of decedents to inhabitants.*

Color.	Sex.	Population, June 1, 1884.	Number of deaths returned.	Per cent of deaths of each sex to total of both sexes.	Males to 100 females.	Per cent of deaths of each color to total of all colors, by sex.	Per cent of inhabitants of each color to total of all colors, by sex, June 1, 1884.	Death-rate. Per cent of deaths in 1888 to population in 1884.
All colors	Totals	[a] 1,846,845	20,315	.....	.....	100.00	100.00	1.10
	Males	970,352	10,984	54.16	118	100.00	100.00	1.13
	Females	876,287	9,297	45.84	.....	100.00	100.00	1.06
	Unknown	206	34	.....	.....	.....	.....	.....
White	Totals	1,823,846	19,982	.....	.....	98.36	98.75	1.10
	Males	958,409	10,803	54.15	118	98.35	98.77	1.13
	Females	865,427	9,146	45.85	.....	98.38	98.76	1.06
	Unknown	10	33	.....	.....	.....	.....	.....
Black	Totals	6,855	163	.....	.....	.80	.37	2.38
	Males	3,691	87	53.37	114	.79	.38	2.35
	Females	3,164	76	46.63	.....	.82	.36	2.40
Mulatto	Totals	8,260	42	.....	.....	.21	.45	.51
	Males	4,204	25	59.52	147	.23	.43	.59
	Females	4,056	17	40.48	.....	.18	.46	.42
Indian	Totals	6,782	124	.....	.....	.61	.37	1.83
	Males	3,508	68	54.84	121	.62	.35	1.94
	Females	3,274	56	45.16	.....	.60	.37	1.71
Unknown	Totals	1,032	4	.....	.....	.02	.05	.39
	Males	470	1	33.33	100	.01	.05	.21
	Females	366	2	66.67	.....	.02	.05	.55
	Unknown	196	1	.....	.....	.....	.....	.....
Black and mulatto	Totals	15,115	205	.....	.....	1.01	.81	1.36
	Males	7,895	112	54.63	120	1.02	.81	1.42
	Females	7,220	93	45.37	.....	1.00	.82	1.29

[a] Includes 70 Asiatic males.

TABLE 63.—*Exhibiting, by number and by sex, for the State and counties, the color of decedents, returned for the year 1889.*

State and counties.	All colors, 1889.				White.				Black.				Mulatto.				Indian.				Unknown.			
	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.
State	20,315	10,984	9,297	34	19,982	10,808	9,146	33	163	87	76	..	42	25	17	..	124	68	56	..	4	1	2	1
Alcona	19	9	10	..	19	9	10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Alger	5	2	3	..	4	2	2	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..
Allegan	359	201	158	..	352	197	155	..	1	1	..	..	4	1	3	..	2	2	..	..	..	..	..	..
Alpena	122	67	55	..	122	67	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Antrim	75	41	34	..	75	41	34	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Arenac	47	32	15	..	47	32	15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Baraga	35	19	16	..	29	15	14	..	..	..	..	..	..	..	..	..	6	4	2	..	..	..	..	..
Barry	177	86	91	..	177	86	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bay	493	251	242	..	491	251	240	..	2	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..
Benzie	36	18	18	..	35	18	17	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..
Berrien	283	148	135	..	277	146	131	..	5	2	3	..	1	..	1	..	..	..	..	..	..	..	..	..
Branch	272	141	131	..	269	139	130	..	3	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Calhoun	373	188	185	..	368	186	182	..	3	..	..	..	2	2	..	..	..	..	..	..	..	..	..	..
Cass	175	84	91	..	156	74	82	..	16	9	7	..	3	1	2	..	..	..	..	..	..	..	..	..
Charlevoix	40	16	24	..	39	16	23	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..
Cheboygan	107	57	50	..	107	57	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chippewa	75	41	34	..	72	38	34	..	1	1	..	..	..	..	..	..	2	2	..	..	..	..	..	..
Clare	24	17	7	..	24	17	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clinton	236	134	102	..	236	134	102	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Crawford	22	10	12	..	22	10	12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Delta	155	104	49	2	155	104	49	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Eaton	271	131	140	..	271	131	140	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Emmet	105	58	46	1	63	35	27	1	..	..	..	..	..	..	..	..	42	23	19	..	..	..	..	..
Genesee	327	167	160	..	322	164	158	..	2	1	1	..	3	2	1	..	..	..	..	..	..	..	..	..
Gladwin	13	3	10	..	13	3	10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogebic	112	78	34	..	112	78	34	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Grand Traverse	113	60	53	..	113	60	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gratiot	188	96	92	..	188	96	92	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hillsdale	218	113	105	..	218	113	105	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Houghton	395	234	160	1	395	234	160	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Huron	234	130	104	..	234	130	104	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE 63.—CONTINUED.—*Deaths by counties, by color, by sex.*

Counties.	All colors, 1889.				White.				Black.				Mulatto.				Indian.				Unknown.			
	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.
Ingham	321	170	159	2	320	164	155	1	9	6	3	..	..	..	..	..	..	..	..	..	2	..	1	1
Ionia	258	132	126	..	257	131	126	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Iosco	131	73	58	..	131	73	58	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Iron	18	13	5	..	18	13	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Isabella	143	74	69	..	130	67	63	..	..	..	..	..	1	1	..	..	12	6	6	..	..	..	..	..
Isle Royal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jackson	439	224	215	..	429	218	211	..	8	4	4	..	2	2	..	..	..	..	..	..	..	..	..	..
Kalamazoo	431	234	197	..	421	228	193	..	10	6	4	..	..	..	..	..	..	..	..	..	..	..	..	..
Kalkaska	50	33	17	..	50	33	17	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kent	1,128	627	499	2	1,119	622	495	2	9	5	4	..	..	..	..	..	..	..	..	..	..	..	..	..
Keweenaw	48	37	11	..	48	37	11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake	39	25	14	..	39	25	14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lapeer	229	122	107	..	229	122	107	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leelanaw	93	54	39	..	78	44	34	..	1	1	..	..	..	..	..	..	14	9	5	..	..	..	..	..
Lenawee	432	223	209	..	427	221	206	..	3	1	2	..	2	1	1	..	..	..	..	..	..	..	..	..
Livingston	203	110	93	..	202	109	93	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Luce	11	4	7	..	11	4	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mackinac	54	29	25	..	36	22	14	..	..	..	..	..	..	..	..	..	18	7	11	..	..	..	..	..
Macomb	367	177	190	..	367	177	190	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manistee	212	122	90	..	212	122	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manitou	8	4	4	..	8	4	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Marquette	429	270	159	..	429	270	159	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mason	169	92	77	..	164	87	77	..	..	..	..	..	..	..	..	..	5	5	..	..	..	..	..	..
Mecosta	145	86	59	..	143	85	58	..	1	..	1	..	1	1	..	..	..	..	..	..	..	..	..	..
Menominee	350	197	141	12	345	196	137	12	..	..	..	..	..	..	..	..	5	1	4	..	..	..	..	..
Midland	70	32	38	..	70	32	38	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Missaukee	29	14	15	..	29	14	15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Monroe	272	142	130	..	269	139	130	..	2	2	..	..	1	1	..	..	..	..	..	..	..	..	..	..
Montcalm	265	129	136	..	265	129	136	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Montmorency	25	12	13	..	25	12	13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Muskegon	444	254	190	..	440	251	189	..	2	1	1	..	2	2	..	..	..	..	..	..	..	..	..	..
Newaygo	116	67	49	..	116	67	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oakland	397	223	173	1	391	219	171	1	3	2	1	..	3	2	1	..	..	..	..	..	..	..	..	..
Oceana	113	60	53	..	110	58	52	..	..	..	..	..	..	..	..	..	3	2	1	..	..	..	..	..
Ogemaw	25	13	12	..	25	13	12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ontonagon	34	21	12	1	32	20	11	1	..	..	..	..	..	..	..	..	2	1	1	..	..	..	..	..
Osceola	93	49	44	..	90	48	42	..	..	..	..	..	..	..	..	..	3	1	2	..	..	..	..	..

TABLE 63.—CONTINUED.—*Deaths by counties, by color, by sex.*

Counties.	All colors, 1889.				White.				Black.				Mulatto.				Indian.				Unknown.			
	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.
Oscoda	18	13	5	..	18	13	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Otsego	19	8	11	..	19	8	11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ottawa	375	212	160	3	373	210	160	3	1	1	..	..	..	..	..	..	1	1	..	..	..	..	..	..
Presque Isle	46	29	17	..	44	28	16	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	1	..
Roscommon	7	3	4	..	6	2	4	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..
Saginaw	998	560	438	..	989	554	435	..	1	..	1	..	3	3	..	..	5	3	2	..	..	..	..	..
Sanilac	264	136	128	..	264	136	128	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Schoolcraft	36	23	13	..	36	23	13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Shiawassee	168	87	81	..	168	87	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Clair	450	235	215	..	450	235	215	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Joseph	239	123	115	1	239	123	115	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tuscola	281	159	122	..	280	159	121	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..
Van Buren	281	135	146	..	271	128	143	..	8	6	2	..	2	1	1	..	..	..	..	..	..	..	..	..
Washtenaw	344	185	159	..	340	184	156	..	4	1	3	..	..	..	..	..	..	..	..	..	..	..	..	..
Wayne	4,005	2,153	1,844	8	3,928	2,115	1,805	8	66	33	33	..	11	5	6	..	..	..	..	..	..	..	..	..
Wexford	77	39	38	..	77	39	38	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

DEATHS OF NATIVE AND FOREIGN BORN INHABITANTS.

The nativity of decedents in the State for 1887 and 1889 inclusive and a ten years average ending with 1888 may be seen in Table 64. The death rate of the native born for 1889 is lower than for any year of the table, including the ten years average, while the death rate for the foreign born is just the opposite.

TABLE 64.—*Nativity of decedents in Michigan for the years 1887–1889, and the average for ten years, 1879–1888.*

Nativity of decedents.	Deaths, 1887.		Deaths, 1888.		Deaths, 1889.		Average for 10 years, ending with 1888.	
	Number.	Per cent of total.	Number.	Per cent of total.	Number.	Per cent of total.	Number.	Per cent of total.
All nativities	19,482	100.00	21,764	100.00	20,315	100.00	17,721	100.00
Native born	14,556	74.72	16,328	75.02	15,171	74.68	13,722	77.43
Foreign born	4,187	21.49	4,501	20.68	4,405	21.68	3,444	19.44
Unknown	739	3.79	935	4.30	739	3.64	555	3.13

Table 65 shows the population in 1884, the deaths in 1889 by nativity, sex, periods of age, and the death rate or number of deaths to each hundred of population. As usual, the death rate is seen to be greater for the native born than for the foreign born and also greater than the total for all nativities. This excess among the native born is more noticeable in the period under five than in any other, but in the more advanced ages the death rate is seen to be more nearly equal, and is often greater among the foreign born. It seems scarcely necessary to repeat the observation that native born decedents contain a large element of strictly foreign people, and also that a very large proportion of the deaths of infants and children is included among the native born.

TABLE 65.—*By nativity, sex and periods of age, the population in 1884, the number of deaths in 1889, and the per cent of deaths to inhabitants.*

Ages in years and periods.	Inhabitants of Michigan, June 1, 1884.						Deaths in Michigan in 1889.						Death-rate; number of deaths to 100 living.					
	All nativities.		Native.		Foreign.		All nativities.		Native.		Foreign.		All nativities.		Native.		Foreign.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Totals	974,424	879,028	695,490	662,145	272,298	214,669	10,984	9,297	7,924	7,215	3,060	2,082	1.13	1.06	1.14	1.09	1.12	.97
Under 5	114,852	111,116	108,681	105,166	5,972	5,763	4,106	3,524	3,962	3,415	144	109	3.58	3.17	3.65	3.25	2.41	1.89
5 to 10	110,263	107,363	96,903	94,682	13,126	12,491	468	446	425	416	43	30	.42	.42	.44	.44	.33	.24
10 to 15	99,721	96,503	86,116	83,467	13,373	12,858	252	256	222	224	30	32	.25	.27	.26	.27	.22	.25
15 to 20	92,033	91,010	72,783	72,803	18,910	17,997	334	377	262	313	72	64	.36	.41	.36	.43	.38	.36
20 to 30	190,217	163,177	122,786	115,746	65,028	46,937	928	869	575	630	353	239	.49	.53	.47	.54	.54	.51
30 to 40	139,282	116,333	80,547	74,032	57,399	4,981	699	758	349	482	350	276	.50	.65	.43	.65	.61	.66
40 to 50	97,381	85,898	53,408	52,016	43,354	33,674	668	588	283	328	385	260	.69	.68	.53	.64	.89	.77
50 to 60	68,020	56,521	37,026	32,813	30,651	23,550	786	526	376	296	410	230	1.16	.93	1.02	.90	1.34	.98
60 to 70	40,743	33,149	23,640	19,918	16,939	13,139	1,011	719	476	389	535	330	2.48	2.17	2.01	1.95	3.16	2.51
70 to 80	16,772	13,949	10,801	9,000	5,885	4,899	996	723	565	427	431	296	5.94	5.18	5.23	4.74	7.32	6.04
80 and over	4,034	3,659	2,617	2,377	1,389	1.263	557	406	344	249	212	167	13.81	11.10	13.14	10.47	15.26	13.22
Unknown ages	1,106	350	182	125	272	117	179	105	84	56	95	49	16.18	30.00	46.15	4.48	34.93	41.88

TABLE 66.—*Exhibiting by number and by sex, for the State and counties, the nativity of decedents returned for the year 1889.*

State and counties.	All nativities, 1889.				Native.				Foreign.				Unknown.			
	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.
State	20,315	10,984	9,297	34	15,171	7,924	7,215	32	4,405	2,625	1,779	1	739	435	303	1
Alcona	19	9	10	....	13	6	7	....	6	3	3	..	....	....	....	..
Alger	5	2	3	....	4	1	3	....	1	1	....	..	....	....	....	..
Allegan	359	201	158	....	294	160	134	....	52	31	21	..	13	10	3	..
Alpena	122	67	55	....	95	54	41	....	19	12	7	..	8	1	7	..
Antrim	75	41	54	....	60	34	26	....	15	7	8	..	....	....	....	..
Arenac	47	32	15	....	41	29	12	....	6	3	3	..	....	....	....	..
Baraga	35	19	16	....	21	10	11	....	11	7	4	..	3	2	1	..
Barry	177	86	91	....	157	76	81	....	17	7	10	..	3	3	....	..
Bay	493	251	242	....	360	176	184	....	129	73	36	..	4	2	2	..
Benzie	36	18	18	....	31	16	15	....	4	2	2	..	1	....	1	..
Berrien	283	148	135	....	237	120	117	....	39	25	14	..	7	3	4	..
Branch	272	141	131	....	218	107	111	....	31	18	13	..	23	16	7	..
Calhoun	373	188	185	....	320	156	164	....	46	29	17	..	7	3	4	..
Cass	175	84	91	....	152	70	82	....	18	14	4	..	5	....	5	..
Charlevoix	40	16	24	....	37	16	21	....	3	....	3	..	....	....	....	..
Cheboygan	107	57	50	....	86	40	46	....	21	17	4	..	....	....	....	..
Chippewa	75	41	34	....	46	23	23	....	28	18	10	..	1	....	1	..
Clare	24	17	7	....	20	15	5	....	4	2	2	..	....	....	....	..
Clinton	236	134	102	....	198	107	91	....	38	27	11	..	....	....	....	..
Crawford	22	10	12	....	19	8	11	....	3	2	1	..	....	....	....	..
Delta	155	104	49	2	108	64	42	2	43	36	7	..	4	4	....	..
Eaton	271	131	140	....	240	118	122	....	22	10	12	..	9	3	6	..
Emmet	105	58	46	1	84	50	33	1	15	7	8	..	6	1	5	..
Genesee	327	167	160	....	253	130	123	....	62	32	30	..	12	5	7	..
Gladwin	13	3	10	....	13	3	10	....	....	....	....	..	....	....	....	..
Gogebic	112	78	34	....	48	23	25	....	51	48	3	..	13	7	6	..
Grand Traverse	113	60	53	....	81	44	37	....	31	16	15	..	1	....	1	..
Gratiot	188	96	92	....	175	90	85	....	11	5	6	..	2	....	1	..
Hillsdale	218	113	105	....	193	99	94	....	15	9	6	..	10	5	5	..
Houghton	395	234	160	1	282	160	121	1	104	69	35	..	9	5	4	..
Huron	234	130	104	....	156	85	17	....	77	44	33	..	1	1	....	..

TABLE 66.—CONTINUED.—*Deaths by counties, by nativity, by sex.*

Counties.	All nativities, 1889.				Native.				Foreign.				Unknown.			
	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.
Ingham	331	170	159	2	291	148	141	2	32	18	14	..	8	4	4	..
Ionia	258	132	126	....	201	97	104	....	47	29	18	..	10	6	4	..
Iosco	131	73	58	....	86	44	42	....	40	25	15	..	5	4	1	..
Iron	18	13	5	....	14	11	3	....	4	2	2	..	....	....	....	..
Isabella	143	74	69	....	111	54	57	....	29	18	11	..	3	2	1	..
Isle Royal	....	....	....	....	....	....	....	....	....	....	....	..	....	....	....	..
Jackson	439	224	215	....	360	172	188	....	62	39	23	..	17	13	4	..
Kalamazoo	431	234	197	....	351	189	162	....	67	37	30	..	13	8	5	..
Kalkaska	50	33	17	....	40	27	13	....	7	4	3	..	3	2	1	..
Kent	1,128	627	499	2	806	424	381	1	233	129	103	1	89	74	15	..
Keweenaw	48	37	11	..	29	21	8	....	19	16	3	..	....	....	....	..
Lake	39	25	14	....	29	18	11	....	7	5	2	..	3	2	1	..
Lapeer	229	122	107	....	169	91	78	....	55	29	26	..	5	2	3	..
Leelanaw	93	54	39	....	76	43	33	....	16	11	5	..	1	....	1	..
Lenawee	432	223	209	....	352	175	177	....	73	47	26	..	7	1	6	..
Livingston	203	110	93	....	167	90	77	....	27	15	12	..	9	5	4	..
Luce	11	4	7	....	11	4	7	....	....	....	....	..	....	....	....	..
Mackinac	54	29	25	....	45	23	22	....	5	4	1	..	4	2	2	..
Macomb	367	177	190	....	276	127	149	....	88	49	39	..	3	1	2	..
Manistee	212	122	90	....	146	79	67	....	64	43	21	..	2	....	2	..
Manitou	8	4	4	....	3	1	2	....	5	3	2	..	....	....	....	..
Marquette	429	270	159	....	264	150	114	....	155	112	43	..	10	8	2	..
Mason	169	92	77	....	126	66	60	....	41	26	15	..	2	....	2	..
Mecosta	145	86	59	....	108	62	46	....	33	21	12	..	4	3	1	..
Menominee	350	197	141	12	265	136	117	12	83	60	23	..	2	1	1	..
Midland	70	32	38	....	60	28	32	....	9	4	5	..	1	....	1	..
Missaukee	29	14	15	....	21	10	11	....	7	4	3	..	1	....	1	..
Monroe	272	142	130	....	200	98	102	....	57	31	26	..	15	13	2	..
Montcalm	265	129	136	....	218	104	114	....	35	19	16	..	12	6	6	..
Montmorency	25	12	13	....	21	10	11	....	1	1	....	..	3	1	2	..
Muskegon	444	254	190	....	333	195	138	....	105	54	51	..	6	5	1	..
Newaygo	116	67	49	....	99	54	45	....	15	12	3	..	2	1	1	..
Oakland	397	223	173	1	296	162	133	1	90	56	34	..	11	5	6	..
Oceana	113	60	53	....	90	46	44	....	16	10	6	..	7	4	3	..
Ogemaw	25	13	12	....	19	9	10	....	6	4	2	..	....	....	....	..
Ontonagon	34	21	12	1	26	16	9	1	4	1	3	..	4	4	....	..
Osceola	93	49	44	....	65	35	30	....	25	11	14	..	3	3	....	..

TABLE 66.—CONTINUED.—*Deaths by counties, by nativity, by sex.*

Counties.	All nativities, 1889.				Native.				Foreign.				Unknown.			
	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.
Oscoda	18	13	5	....	11	6	5	....	3	3	....	..	4	4	....	..
Otsego	19	8	11	....	14	7	7	....	5	1	4	..	....	....	....	..
Ottawa	375	212	160	3	258	144	111	3	111	64	47	..	6	4	2	..
Presque Isle	46	29	17	....	28	17	11	....	15	9	6	..	3	3	....	..
Roscommon	7	3	4	....	6	2	4	....	1	1	....	..	....	....	....	..
Saginaw	998	560	438	....	708	386	317	....	249	140	109	..	46	34	12	..
Sanilac	264	136	128	....	162	84	78	....	94	49	45	..	8	3	5	..
Schoolcraft	36	23	13	....	26	14	12	....	9	8	1	..	1	1	....	..
Shiawassee	168	87	81	....	137	70	67	....	29	16	13	..	2	1	1	..
St. Clair	450	235	215	....	309	160	149	....	121	66	55	..	20	9	11	..
St. Joseph	239	123	115	1	196	104	91	1	28	14	14	..	15	5	10	..
Tuscola	281	159	122	....	197	114	83	....	59	29	30	..	25	16	9	..
Van Buren	281	135	146	....	244	116	128	....	29	13	16	..	8	6	2	..
Washtenaw	344	185	159	....	239	130	109	....	73	39	34	..	32	16	16	..
Wayne	4,005	2,153	1,844	8	2,768	1,435	1,326	7	1,078	639	439	..	159	79	79	1
Wexford	97	39	38	....	57	26	21	....	17	11	6	..	3	2	1	..

CAUSES OF DEATH, 1889.

This is in many respects the most important part of the report, its object being to point out the locality in the State where certain diseases prevailed the most, what were the diseases that proved most fatal, at what ages they bore most heavily, at what seasons of the year they occurred, what were the surrounding circumstances, and how they compare with deaths in previous years. All these facts form an array of evidence from which reliable conclusions can be drawn for the benefit of the public health.

While the leading causes of death in Michigan are not absolutely peculiar to its own special area, there are certain diseases, more prominent than others that demand our most thoughtful consideration. These principal causes will now be taken up, classified and studied with reference to their effect upon the mortality rate in the State.

In Table 67 the causes of death are arranged in five classes. The number of deaths from zymotic diseases in 1889 is found to be less than for 1888, though more in proportion to the total number of deaths returned, but the proportion in 1888 was lower than for any year since 1885. The number of deaths in 1889 in this class corresponds with the average for ten years, though the per cent to the total deaths is less.

The number of deaths in the second class called constitutional, and which includes consumption and cancer, is lower than for any year in the table, both as to number returned, and per cent of total deaths. Class three, local diseases, affecting different organs of the body as the brain and nervous system, shows a less number than was returned for 1888, and more than for 1887.

The deaths from developmental diseases, of old age and infants, and the number of deaths by violence for the several years can also be found in this table.

TABLE 67.—*Number of deaths returned from all causes, from each class of causes and the per cent of deaths from each class, to deaths from all causes, for the years 1887-1889, and the average for ten years, 1879-1888.*

Causes of deaths.—Classes.	1887.		1888.		1889.		Average for 10 years, 1878-1887.	
	Number	Per cent of total.	Number	Per cent of total.	Number	Per cent of total.	Number	Per cent of total.
All causes	19,482	100.00	21,764	100.00	20,315	100.00	17,721	100.00
I.—Zymotic diseases	4,873	25.01	4,994	22.95	4,772	23.49	4,771	26.92
II.—Constitutional diseases	3,085	15.84	3,527	16.20	3,123	15.37	2,861	16.14
III.—Local diseases	6,034	30.97	6,956	31.96	6,459	31.79	5,219	29.45
IV.—Developmental diseases	3,125	16.04	3,950	18.15	3,549	17.47	2,605	14.71
V.—Violent deaths	1,044	5.36	1,033	4.75	1,096	5.40	906	5.11
Unknown and unclassified	1,321	6.78	1,304	5.99	1,316	6.48	1,359	7.67

TABLE 68.—*By months, the number of deaths returned in Michigan from all causes and from each class of causes during the year 1889.*

Causes of death.—Classes.	Year, 1889.	Months of death, 1889.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Alll causes	20,315	1411	1265	1667	1577	1460	1394	1683	2215	2028	1893	1700	1957	63
I.—Zymotic diseases	4,772	256	220	293	244	226	258	444	720	664	537	438	459	13
II.—Constitutional diseases	3,123	244	204	273	277	251	251	223	308	294	255	248	285	10
III.—Local diseases	6,459	514	486	606	596	527	439	463	589	535	569	528	602	1
IV.—Developmental diseases	3,549	249	221	319	298	268	264	303	335	314	314	294	355	15
V.—Violent deaths	1,096	63	50	76	70	86	81	113	107	83	108	105	147	7
Unknown and unclassified	1,314	85	84	100	92	102	101	137	156	138	110	87	109	12

The most important of the zymotic diseases for the year 1889 and for every year since 1878 with the number of deaths in each year, for each disease, are given in Table 69. A glance at the table will show the proportion.

TABLE 69.—*Deaths in Michigan from some of the prominent zymotic diseases during the twelve years 1877–1889, and the average.*

Years.	Diseases.						
	Typhoid fever.	Whooping cough.	Croup.	Diphtheria.	Measles.	Scarlet fever.	Small-pox.
1878	329	132	236	887	16	429	6
1879	397	162	278	1,473	167	418	6
1880	513	264	322	1,542	125	370	3
1881	884	142	380	2,063	256	383	82
1882	463	86	349	1,416	150	592	100
1883	439	92	336	1,007	258	673	5
1884	514	160	325	1,065	144	326	3
1885	387	138	337	1,054	38	245	3
1886	498	185	400	1,117	129	319	6
1887	770	110	399	935	285	318	.....
1888	638	174	474	717	414	323	3
1889	637	140	357	848	104	240	2
Average	539	149	349	1,177	174	386	18

Table 70 presents several of the local diseases and the number of deaths caused by them for the last twelve years. Heart disease and Bright's disease of the kidneys have steadily increased in number, while the others have changed from year to year. In tables 71, 72 and 73 the deaths from certain specified diseases for several years may be seen.

TABLE 70.—*Deaths in Michigan from some of the principal local diseases returned for the twelve years 1878-1889, and the average.*

Years.	Diseases.					
	Convulsions.	Heart disease.	Bronchitis.	Pleurisy.	Peritonitis.	Bright's disease.
1878	288	368	46	16	11	32
1879	275	451	53	20	16	3
1880	348	482	50	26	12	80
1881	337	518	76	19	20	89
1882	356	562	106	16	21	138
1883	344	684	89	20	16	187
1884	436	718	98	18	27	179
1885	452	730	113	16	22	198
1886	431	725	97	20	32	21
1887	474	847	125	25	35	205
1888	516	961	199	46	46	210
1889	453	976	114	25	50	229
Average	392	668	97	22	26	149

TABLE 71.—*Deaths in Michigan from chief developmental diseases, returned for the twelve years 1878–1889, and the average.*

Years.	Diseases.					
	Teething.	Still born infantile premature	Child-birth.	Abortion.	Puerperal convulsions.	Old age.
1878	60	858	161	7	3	579
1879	40	787	193	12	5	605
1880	49	808	193	6	2	625
1881	84	761	192	8	.....	725
1882	83	890	199	9	3	667
1883	55	1,034	221	12	4	738
1884	57	1,462	222	6	4	795
1885	49	1,612	217	12	1	773
1886	75	1,542	213	7	2	865
1887	81	1,607	223	11	1	917
1888	89	2,070	243	5	1	1,174
1889	82	1,876	242	8	3	965
Average	67	1,276	210	9	3	783

TABLE 72.—*Deaths in Michigan from some of the prominent violent causes returned for the twelve years, 1878–1879.*

Years.	Burns and scalds.	Poison.	Railroad accident.	Drowning.	Freezing.	Homicide.	Suicide.	Totals.
1878	66	27	46	117	2	11	63	332
1879	64	15	40	122	5	15	59	320
1880	64	22	40	179	3	7	65	380
1881	175	25	75	125	2	15	57	474
1882	57	22	58	114	3	11	62	353
1883	65	33	109	158	.....	15	91	471
1884	69	16	73	150	1	24	104	437
1885	67	26	76	132	6	28	91	426
1886	58	18	72	144	5	30	82	409
1887	49	31	90	163	1	29	105	468
1888	55	21	113	161	2	14	101	467
1889	93	28	110	130	7	32	94	494
Average	73	24	75	141	3	19	81	418

TABLE 73.—*Deaths in Michigan, returned from brain disorders—twelve years.*

Years.	Softening of the brain.	Apoplexy.	Paralysis.	Insanity.	Cephalitis and unspecified brain diseases.	Totals.
1878	25	91	241	11	370	738
1879	25	108	262	7	400	797
1880	27	119	278	8	475	907
1881	23	110	258	10	541	942
1882	36	87	357	8	448	936
1883	22	85	345	22	439	913
1884	40	130	397	17	524	1,108
1885	36	116	400	24	491	1,067
1886	30	158	485	25	492	1,190
1887	38	135	450	33	516	1,172
1888	37	144	553	25	583	1,342
1889	39	147	583	26	514	1,259
Average	31	119	380	18	483	1,031

DEATHS IN 1889, GROUPED IN PART OF BODY DISEASED.

Table 74 shows what per cent of the whole number of deaths were due to diseases of particular organs of the body for the years 1887, 1888 and 1889, and the average for the last ten years. As usual disease of the lungs stand first. For the year 1889 it comprises nearly one-fifth of the total number of deaths. A comparison of the diseases in the table will show the proportion of deaths from the causes specified.

TABLE 74.—*Order of seven groups of causes of deaths returned for the years 1887–1889, inclusive, and the average for ten years, 1879–1888.*

1887.			1888.			1889.			Average for 10 years, 1879–1888.		
Disease of	No.	Per cent to all causes.	Disease of	No.	Per cent to all causes.	Disease of	No.	Per cent to all causes.	Disease of	No.	Per cent to all causes.
All causes	19,482	100.00	All causes	21,764	100.00	All causes	20,315	100.00	All causes	17,721	100.00
Lungs	3,711	19.05	Lungs	4,345	19.96	Lungs	3,693	18.18	Lungs	3,475	19.61
Bowels	2,585	13.27	Bowels	2,583	11.87	Bowels	2,066	10.17	Bowels	2,246	12.67
Brain	2,274	11.67	Brain	2,393	11.00	Brain	1,988	9.79	Brain	2,001	11.29
Throat	1,377	7.07	Throat	1,245	5.72	Throat	1,404	6.91	Throat	1,533	8.65
Heart	992	5.09	Heart	1,094	5.03	Heart	1,065	5.24	Heart	777	4.38
Kidneys	434	2.23	Kidneys	451	2.07	Kidneys	454	2.23	Kidneys	320	1.80
Liver	155	.80	Liver	351	1.61	Liver	378	1.86	Liver	159	.90
7 groups	11,528	59.17	7 groups	12,462	57.26	7 groups	11,048	54.38	7 groups	10,511	59.30

TABLE 75.—*Eleven geographical divisions of the State, with a list of counties included in each division.*

Upper Peninsula.	Northwestern.	Northern.	Northeastern.	Western.	Northern central.	Eastern.	Central.	Southwestern.	Southern central.	South-eastern.
Alger.	Benzie.	Antrim.	Alcona.	Kent.	Clare.	Arenac.	Barry.	Allegan.	Branch.	Macomb.
Baraga.	Gr'd Traverse.	Charlevoix.	Alpena.	Lake. [f]	Gladwin. [d]	Bay.	Clinton.	Berrien.	Calhoun.	Monroe.
Chippewa. [b]	Leelanaw.	Cheboygan.	Iosco.	Mason. [i]	Isabella.	Huron.	Eaton.	Cass.	Hillsdale.	Oakland.
Delta. [c]	Manistee.	Crawford.	Montmorency.	Muskegon.	Mecosta.	Lapeer.	Genesee.	Van Buren. [k]	Jackson.	Wayne.
Gogebic.	Maniton.	Emmet.	Ogemaw.	Newaygo.	Midland.	Saginaw.	Gratiot.		Kalamazoo.	
Houghton.	Wexford.	Kalkaska.	Oscoda.	Oceana.	Missaukee.	Sanilac.	Ingham.		Lenawee. [g]	
Iron. [e]		Otsego.	Presque Isle.	Ottawa.	Osceola.	St. Clair.	Ionia.		St. Joseph.	
Isle Royal.					Roscommon. [j]	Tuscola.	Livingston.		Washtenaw.	
Keweenaw.							Moncalm.			
Luce.							Shiawassee.			
Mackinac.										
Marquette. [h]										
Menominee.										
Ontonagon.										
Schoolcraft.										

No returns of deaths from the following townships:
[b] Detour, Superior, Trout Lake and White Fish.
[c] Minnewaska.
[d] Billings, Buckeye and Sage.
[e] Felch and Mastodon.
[f] Eden and Glencoe.
[g] Rome.
[h] Richmond.
[i] Branch.
[j] Denton, Gerrish, Higgins, Nester and Roscommon.
[k] Keeler.

DEATHS 1889, BY CLASSES OF CAUSES, BY DIVISIONS OF THE STATE.

The death rate of the several general classes of disease for the different geographical sections of the State may be seen in Table 76.

As for 1888, the largest proportion was in the local diseases, and was highest for the central division. The zymotic diseases are highest in the northern sections, as are the violent deaths. The northern central shows the lowest death rate, as based upon the population of 1884. The table is an interesting one and will repay studying.

TABLE 76.—*Exhibiting, by geographical divisions, the number of deaths, the per cent of deaths in 1889 to population in 1884, the per cent of deaths for each division to total deaths for the State, and the per cent of deaths from each class of causes to deaths from all causes.*

State and geographical divisions.	Population June 1, 1884, represented by deaths in 1889.	Deaths reported, 1889.		Per cent of all deaths in 1889 to population in 1884.	Per cent of deaths from each class of causes to deaths from all causes by geographical divisions.					
		Number.	Per cent of total.		Class I.—Zymotic diseases.	Class II.—Constitutional diseases.	Class III.—Local diseases.	Class IV.—Developmental diseases.	Class V.—Violent deaths.	Unknown and unclassified.
State	1,846,845	20,315	100.00	1.10	23.44	15.37	31.30	17.47	5.40	6.47
Upper Peninsula	114,971	1,757	8.65	1.53	28.46	8.65	22.08	17.99	12.01	10.81
Northwestern	55,200	539	2.65	.98	25.60	11.69	30.43	16.14	4.63	11.50
Northern	46,714	418	2.06	.90	25.12	17.46	25.36	16.27	5.51	10.29
Northeastern	37,233	386	1.90	1.04	25.13	8.29	23.06	19.70	7.51	16.32
Western	212,035	2,384	11.74	1.12	26.64	14.93	30.29	16.49	4.87	6.80
Northern Central	70,313	524	2.58	.75	21.56	16.80	30.53	18.89	5.34	6.87
Eastern	291,713	2,996	14.75	1.03	24.47	14.55	29.77	19.16	4.94	7.11
Central	299,364	2,424	11.93	.81	21.62	17.99	39.40	15.64	4.83	4.50
Southwestern	126,879	1,098	5.40	.87	19.22	20.31	36.34	15.94	3.64	4.55
Southern Central	297,711	2,748	13.53	.92	18.05	18.23	34.93	16.88	4.84	3.49
Southeastern	294,712	5,041	24.81	1.71	24.20	15.14	32.15	18.25	4.48	5.75

TABLE 77.—CAUSES OF DEATH.—Nosological Arrangement.

Exhibiting the number of reported deaths in Michigan, and in each county of the State, during the year 1889, from specified causes, statistically classified (still births included).

Causes of death, 1889.	State.	Counties, 1889.																									
		Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.
All causes	20315	19	5	359	122	75	47	35	177	493	36	283	272	373	175	40	107	75	24	236	22	155	271	105	327	13	112
Specified causes	19081	18	5	345	98	72	44	29	170	455	30	269	264	363	162	36	104	70	22	227	16	143	258	88	318	12	98
Causes not specified	1234	1	----	14	24	3	3	6	7	38	6	14	8	10	13	4	3	5	2	9	6	12	13	17	9	1	14
CLASSES.																											
I.—Zymotic diseases	4772	5	2	69	26	26	14	15	40	108	4	65	29	66	30	14	34	28	9	50	2	44	53	16	55	6	42
II.—Constitutional diseases	3123	2	1	62	16	11	1	5	27	69	5	57	61	66	40	8	19	9	1	49	2	12	55	23	76	----	6
III.—Local diseases	6459	5	----	136	26	24	8	4	68	133	14	91	109	156	62	11	26	23	6	83	6	32	104	25	113	3	20
IV.—Developmental diseases	3549	3	1	62	25	7	15	3	29	124	4	45	52	57	25	1	23	7	5	31	5	37	38	16	62	3	10
V.—Violent deaths	1096	3	1	16	3	4	6	2	5	21	2	11	12	18	5	2	2	1	1	13	1	18	7	6	12	----	20
Unclassified	80	----	----	----	2	----	----	----	1	----	1	----	1	----	----	----	----	2	----	1	----	----	1	2	----	----	----
ORDERS.																											
I.—1. Miasmatic diseases	4733	5	2	69	26	26	14	15	40	108	4	64	29	66	30	14	34	27	9	50	2	44	52	16	55	6	41
2. Enthetic diseases	5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
3. Dietic diseases	21	----	----	----	----	----	----	----	----	----	----	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1
4. Parasitic diseases	13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1	----	----	----	----	1	----	----	----	----
II.—1. Diathetic diseases	879	1	1	18	3	6	----	1	6	21	1	15	22	24	16	1	6	2	1	20	----	----	19	4	25	----	----
2. Tubercular diseases	2244	1	----	44	13	5	1	4	21	48	4	42	39	42	24	7	13	7	----	29	2	12	36	19	51	----	6

III.—1. Diseases of nervous system	2183	1		51	11	9	3	1	21	38	3	32	28	45	23	3	11	9	4	29	6	8	36	7	39	1	3
2. Diseases of organs of circulation	1147	1		22	4	3	1		18	18	2	20	20	33	13	5	3	4		18		4	29	5	20		1
3. Diseases of respiratory organs	1576	2		32	10	7	1	2	13	37	5	15	22	35	9	1	5	9	1	12		12	14	6	22	1	14
4. Diseases of digestive organs	926			22	1	4	3	1	9	28	2	5	16	16	8	1	5	1		9		5	14	6	16	1	
5. Diseases of urinary organs	464	1		8		1			4	8	2	15	19	20	5	1	2			10		2	8	1	15		1
6. Diseases of generative organs	22							1												1							
7. Diseases of organs of locomotion	10																			1							
8. Diseases of integumentary system	131			1					3	4		4	3	7	4				1	3		1	3		1		1
IV.—1. Developmental diseases of children	1978	2		30	23	5	6	2	17	64	4	21	27	22	9		16	6	5	11	4	30	23	8	22	2	9
2. Developmental diseases of women	263	1		7	2	1	1	1	1	14		2	6	2	2	1	1			1		2	2	2	3		
3. Developmental diseases of old people	965			22		1	1		9	20		22	18	26	11		1	1		18		2	13	5	34	1	1
4. Diseases of nutrition	343		1	3			7		2	26			1	7	3		5			1	1	3		1	3		
V.—1. Accident or negligence	554	2	1	12	1	2	3	2	1	13		7	5	9	2	2	2	1		4		15	2	5	8		5
2. Battle																											
3. Homicide	32										1		1	1											1		4
4. Suicide	94									2		2			1					3			2		1		1
5. Execution																											
6. Violent deaths	416	1		4	2	2	3		4	6	1	2	6	8	2				1	6	1	3	3	1	2		10
CLASS I.—ZYMOTIC	4772	5	2	69	26	26	14	15	40	108	4	65	29	66	30	14	34	28	9	50	2	44	53	16	55	6	42
I.—ORDER 1, Miasmatic	4733	5	2	69	26	26	14	15	40	108	4	64	29	66	30	14	34	27	9	50	2	44	52	16	55	6	41
1. Small-pox	5																										
2. Measles	104			2					4					2			1	1	2	1			1				2
3. Scarlatina	240	1		2	1	2			2	13		2		2	1		3		1	8			3		3		1
4. Diphtheria	848			12		2	6		6	2		16	3	17	3	4	4	7		2		4	2	1	7		3
5. Quinsy	13			1																				1			
6. Croup	403		1	4	2					10	1	5			1		7	2		3		5	1	3	1		

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Causes of death, 1889.	State.	Counties, 1889.																									
		Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.
7. Whooping-cough	140			2	5					2		1		3			3		2	3		1	3	1	2	2	
8. Typhoid Fever	638			6	1	5	1	8	7	12		14	4	8	2	4	1	7	2	10		7	6	1	7		26
8. Typhus Fever	4																										
8. Typho-malarial Fever	43			1		3				4				1									1				
9. Erysipelas	242			5	2	1			4	4		1	2	3	2		2	1		3		1	13	2	6		
10. Puerperal Fever	31			1						1					2					1			1				
11. Carbuncle	2																										
12. Influenza	178	1		3	2				2	4		3	1	1	3		3	1		4		1			3		1
13. Dysentery	158			3					2	4			2	5	2				1	3	2	2	3	1			4
14. Diarrhea	450		1	3	9	1	4	5	4	16			1			1	4	1		1		10	2	3	2	1	3
15. Cholera Infantum	722	1		17	1	12	2	1	8	23	1	15	7	13	7	3	4	5	1	9		10	14	2	12	1	
16. Cholera Morbus	53						1	1		4			1												1		
16. Cholera																											
17. Ague	196	2		2	1					6	1	3	5	3		2				1			1	1	7		
18. Remittent Fever	108			2	1					1			1	3	3			2				2				1	1
19. Rheumatism	155			3	1				1	2	1	4	2	5	4		2			1		1	1		4	1	
20. Leprosy																											
I.—ORDER 2, Enthetic	5																										
1. Syphilis	5																										
2. Stricture of Urethra																											
2. Stricture																											

3. Hydrophobia																											
4. Glanders																											
I.—Order 3, Dietic	21											1															1
1. Privation																											
2. Purpura																											
2. Rachitis	3																										
2. Scurvy																											
3. Delirium Tremens (Alcoholism)	8																										
4. Intemperance	10											1															1
5. Opium Eating																											
I.—Order 4, Parasitic	13																	1					1				
1. Thrush	5																						1				
2. Worms	8																	1									
3. Disease of Scalp																											
Class II.—Constitutional	3123	2	1	62	16	11	1	5	27	69	5	57	61	66	40	8	19	9	1	49	2	12	55	23	76		6
II.—Order 1, Diathetic	879	1	1	18	3	6		1	6	21	1	15	22	24	16	1	6	2	1	20			19	4	25		
1. Gout	1																										
2. Anæmia	2																										
2. Dropsy	337	1		7	1	4		1	2	8	1	8	6	7	9		1	1		11			3	4	7		
3. Cancer	492		1	10	2	2			2	11		7	15	16	7		3	1		7			16		16		
4. Noma (canker)	25			1					2	2				1		1	2		1	2					1		
5. Mortification	22												1												1		
II.—Order 2, Tubercular	2244	1		44	13	5	1	4	21	48	4	42	39	42	24	7	13	7		29	2	12	36	19	51		6
1. Scrofula	27			1								1		1	1					1					1		
2. Consumption of bowels	21			1								1		1									2				

TABLE 77.—CONTINUED. *Causes of death, classified.*

Causes of death, 1899.	State.	Counties, 1899.																														
		Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	Grand Traverse.	Gratiot.	Hillsdale.	Ionia.	Iosco.
3. Phthisis (consumption of lungs).	2173	1		42	13	5	1	4	21	48	4	40	39	40	33	7	18	7		38	1	13	34	18	50		8	8	8	8	8	8
4. Hydrocephalus	7																							4								
5. Marasmus	16																															
CLASS III.—LOCAL DISEASES	6459	5		36	26	24	8	4	68	139	14	91	169	156	62	11	36	33	6	93	6	62	104	35	13	8	8	8	8	8	8	8
I.—ORDER 1, Nervous system	2183	1		51	11	9	3	1	21	38	3	32	38	45	33	8	11	9	4	39	6	8	36	7	30	1	8	8	8	8	8	8
1. Cephalitis	341			7	3		1			13		7		1	6		2	1		6	4	5	3	3	5							
2. Apoplexy	147			7					2	1		2	6	2	1					4			7	1	3							
3. Paralysis	558			19	1	2			13	2		8	16	18	10		3	3	1	7	1	1	16		13							
4. Insanity	26			1									1																			
5. Chorea	3																															
6. Epilepsy	40			1											1	1			1				3		1							
7. Tetanus	8											1	1		1																	
8. Convulsions	453			4	2	2	1	1	1	11	1	7	1	2	1		1	1		4			2	1	3							
9. Brain disease	407	1		5		4	1		5	7	2	7	2	14	3		2	3	1	7		1	9	3	7							
9. Dropsy of brain	36			2	1									1			2	1		1		1	1			1						
10. Spinal fever	74			2	4				1	1			1	2	3		1		1	3	1		1		1							
11. Spotted fever																																
12. Meningitis	22			1										1																		
13. Meningitis, cerebro-spinal	3			1																					1							
14. Meningitis, spinal	62			1		1				3				4									1									

15. Neuralgia																											
16. Spine disease	1																										
17. Spine, inflammation of	2																										
18. Frightened																											
III.—Order 2, Organs of circulation	1147	1		22	4	3	1		18	18	2	20	20	33	13	5	3	4		18		4	29	5	20		1
1. Pericarditis	65			1						1		1	2	3	2		1			1			1				
2. Aneurism	15																										
3. Heart disease	1067	1		21	4	3	1		18	17	2	19	18	30	11	5	2	4		17		4	28	5	20		1
4. Emboli																											
III.—Order 3, Respiratory organs	1576	2		32	10	7	1	2	13	37	5	15	22	35	9	1	5	9	1	12		12	14	6	22	1	14
1. Epistaxis	1																										
2. Laryngitis	3																	1									
3. Bronchitis	122					1				5		2		1											1		
4. Pleurisy	25			2									1														
5. Pneumonia	1130	1		24	10	4	1	2	7	29	4	10	18	24	7	1	2	7	1	10		11	9	6	18	1	13
6. Asthma	59			2		2				1			1	2									1				
7. Lung disease	206	1		3					5	2		1	2	7	2		3	1		1		1	4		5		1
8. Catarrh	30			1					1		1	2		1						1							
III.—Order 4, Digestive organs	926			22	1	4	3	1	9	28	2	5	16	16	8	1	5	1		9		5	14	6	16	1	
1. Gastritis	50					1	1				1		2	2									2		1		
2. Enteritis	352			5	1	2	1		1	16	1	1	4	6	1		2	1		3		1	4	3	8		
3. Peritonitis	50			1									1	2	1							1					
4. Ascitis																											
5. Ulceration of intestines	10			1					1					1	1					1			1				
6. Hernia	44			3						4		1	2							1		1		1			
7. Obstruction of bowels																											

[illegible]	[illegible]																														
[illegible]	[illegible]																														
[illegible]	[illegible]																														
14. [illegible]	35			2					1	2		1												1	1						
15. Liver disease	119			3					4	3			3	2	4					2			3		4	1				
16. Spleen disease	6			1									1																		
17. Bowel diseases, etc.	79			1			1		1	1		1		1								1		2	3						
18. Mouth disease	6																	1													
III. Order 5, Urinary organs	464	1		8		1			4	8	2	15	19	20	5	1	2			10		2	8	1	15			1			
1. Nephritis	13								1																						
2. Ischuria																															
3. Bright's disease of kidneys	229			4					1	6	1	8	11	9	3		1			9			7		8			1			
4. Diabetes	74			1					2			1	4	4	1					1			1	1	3						
5. Calculus (gravel, etc)	7									1																					
6. Cystitis	20											1		2																	
7. Kidney disease	122	1		3		1				1	1	5	4	5	1	1	1					2			4						

III.—Order 6, Genitourinary organs																											
1. Ovarian disease																											
Ovarian tumor	10											1															
2. Disease of uterus	12																		1								
3. Hydrocele																											
III.—Order 7, Organs of locomotion	10																		1								
1. Arthritis	1																		1								
2. Joint diseases	9																										
III.—Order 8, Integumentary system	131			1					3	4		4	3	7	4				1	3		1	3		1		1
1. Phlegmon	45								1	1		1	1	4	2					2		1	2		1		1
2. Ulcers	11									2			1	1									1				
3. Skin disease	75			1					2	1		3	1	2	2				1	1							
Class IV.—Developmental Diseases	3549	3	1	62	25	7	15	3	29	124	4	45	52	57	25	1	23	7	5	31	5	37	38	16	62	3	10
IV.—Order 1, Dev. disease of children	1978	2		30	23	5	6	2	17	64	4	21	27	22	9		16	6	5	11	4	30	23	8	22	2	9
1. Stillborn	1202			14	12	3	4	2	7	48	4	10	19	15	4		3	1	1	8		12	10	6	14	1	6
2. Infantile	121	2		15	11	2	2		8	12		10	6	7	5		12	4	3	2	3	12	11	2	7	1	3
Premature birth	53								1	2			1						1			3	1				
3. Cyanosis	2																										
4. Spina bifida	1																										
5. Other malformations	12			1									1														
6. Teething	82									1		1					1	1		1	1	3			1		
7. Injury at birth	5								1	1													1				
IV.—Order 2, Dev. diseases of women	263	7		7	2	1	1	1	1	14		2	6	2	2	1	1			1		2	2	2	3		
1. Dysmenorrhea																											
Turn of life	8																								1		

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Causes of death, 1869.	State.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8. Intussusceptio[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9. [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] of nutrition	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] and debility	243		1	3			7		2	26			1	7	3		5			1	1	3		1	3		
CLASS V.—VIOLENT DEATHS	1096	3	1	16	3	4	6	2	5	21	2	11	12	18	5	2	2	1	1	13	1	18	7	6	12		20
V.—ORDER 1, Accident or negligence	554	2	1	12	1	2	3	2	1	13		7	5	9	2	2	2	1		4		15	2	5	8		5
1. Fractures and contusions	137	1		2		2				4		2	1		1							6			6		5
2. Wounds	19			1												1						1					
3. Burns and scalds	93			3	1		1			2		2		3		1		1		1		2	1		2		
4. Poison	31			1						1				1									1				
5. Drowning	130	1	1	1			2	2	1	2		2	2	4						2		6					
6. Suffocation	31			1									2	1	1									2			
7. Otherwise	113			3						4		1					2			1				3			
V—ORDER 2, In battle																											
V. ORDER 3, Homicide	32										1		1	1											1		4
1. Murder	32										1		1	1											1		4

V.—Order 4, Suicide	94									2		2			1					3			2		1		1
1. Wounds															1								1				
2. Poison																											
3. Drowning																											
4. Hanging																				1							
5. Otherwise and not specified										2		2								2			1		1		1
V.—Order 5, Execution																											
1. Hanging																											
V.—Order 6, Violent deaths not included above	416	1		4	2	2	3		4	6	1	2	6	8	2				1	6	1	3	3	1	2		10
Unclassified	80				2				1		1		1					2		1			1	2			
1. Head disease	7								1																		
2. Hemorrhage	21												1					1					1	1			
3. Inflammation	47				2													1		1				1			
4. Otherwise	5										1																
Causes not specified	1234	1		14	24	3	3	6	7	38	6	14	8	10	13	4	3	5	2	9	6	12	13	17	9	1	14

III. Local diseases	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]																												
IV. Developmental diseases	15	32	33	75	49	52	43	27	3	22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]																					
V. Violent deaths	5	13	14	40	11	20	8	12	1	8	22	22	7	41	[illegible]	2		6	15	11																
Unclassified		1	1		2	3				3	1			2		2	2		2	1																
ORDERS.																																				
I. 1. Miasmatic diseases	39	53	31	88	59	85	53	38	3	36	111	72	11	90	[illegible]	13	18	17	63	37	[illegible]	23	56	52	1	135	26	25	106	14
2. Enthetic diseases							1				1																			
3. Dietic diseases	2			1		1	1	1						5									1							
4. Parasitic diseases				1		3					1								1					1					1	
II. 1. Diathetic diseases	7	6	10	13	7	8	11	2		4	20	18	1	42	1	3	16	5	28	9		1	15	6		6	3	5	8	
2. Tubercular diseases	9	17	31	43	21	38	37	3	1	21	49	17	4	137	2	6	28	6	59	23		129	57	11	3	58	21	25	22	9
III. 1. Diseases of nervous system	19	19	29	52	30	43	27	8	4	16	64	61	3	113	7	5	7	5	66	28	[illegible]	3	4	5		16	16	20	21	8
2. Diseases of organs of circulation	[illegible]	11	29	[illegible]	6	[illegible]	21	5		6	[illegible]	[illegible]	[illegible]	69	[illegible]	1	20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28							

3. Diseases of respiratory organs	8	16	16	39	18	16	20	16	..	9	28	42	2	8	4	4	16	10	31	18	..	2	32	11	..	25	9	11	17	4
4. Diseases of digestive organs	6	8	7	25	14	18	16	4	2	2	35	21	2	65	6	..	10	3	29	12	..	2	34	14	1	13	7	10	6	5
5. Diseases of urinary organs	1	6	8	5	4	9	7	3	1	3	9	7	1	30	2	1	12	....	11	8	..	1	11	2	..	7	1	2	2	3
6. Diseases of generative organs	1	....	....	....	3	....	....	....	..	....	....	....	....	1	..	..	....	....	1	....	..	....	....	....	..	....	....	....	....	1
7. Diseases of organs of locomotion	....	....	....	....	....	....	1	....	..	....	....	....	....	....	..	..	....	....	....	....	..	....	....	....	..	....	....	....	....	..
8. Diseases of integumentary system	1	....	3	1	1	3	....	....	..	1	2	2	....	7	..	..	2	....	3	3	..	....	2	2	..	3	....	2	....	..
IV.—1. Developmental diseases of children	6	16	12	59	37	28	18	23	3	17	27	24	5	100	6	..	20	9	20	10	1	5	29	25	..	52	13	12	62	13
2. Developmental diseases of women	2	3	1	5	6	4	5	3	..	2	4	7	3	17	..	..	2	....	6	1	..	1	4	3	..	4	3	2	2	1
3. Developmental diseases of old people	7	13	18	7	5	21	18	1	..	3	31	27	....	56	..	..	8	9	39	10	..	....	17	7	1	8	3	3	8	3
4. Diseases of nutrition	....	....	2	4	1	....	2	1	..	....	7	9	1	12	1	..	3	....	6	5	..	....	5	2	..	19	1	2	....	1
V.—1. Accident or negligence	1	3	8	24	5	8	5	6	..	5	10	10	1	12	3	..	4	1	7	8	..	5	3	4	..	11	5	7	14	2
2. Battle	....	....	....	....	....	....	....	....	..	....	....	....	....	....	..	..	....	....	....	....	..	....	....	....	..	....	....	....	....	..
3. Homicide	....	....	....	....	2	2	....	....	..	....	1	....	....	2	..	..	....	....	....	....	..	....	2	....	..	....	1	....	....	..
4. Suicide	2	....	2	1	1	1	1	1	..	....	4	4	....	7	..	..	1	1	....	1	..	....	5	1	..	2	1	....	2	1
5. Execution	....	....	....	....	....	....	....	....	..	....	....	....	....	....	..	..	....	....	....	....	..	....	....	....	..	....	....	....	....	..
6. Violent deaths	2	10	4	15	3	9	2	5	1	3	7	8	6	20	4	2	3	4	8	2	..	....	8	3	..	60	5	2	22	..
CLASS I.—ZYMOTIC	31	53	31	90	59	88	55	39	3	36	113	82	11	295	7	13	48	22	64	32	2	5	57	53	1	135	59	25	107	13
I.—ORDER 1. Miasmatic	29	53	31	88	59	85	53	38	3	36	111	82	11	290	7	13	48	22	63	32	2	5	56	52	1	135	59	25	106	13
1. Small-pox	....	....	....	....	....	....	....	....	..	....	....	1	....	....	..	..	....	....	....	1	..	....	....	....	..	....	....	....	....	..
2. Measles	....	2	....	....	3	1	1	1	..	....	....	....	....	20	..	..	1	....	1	....	..	....	....	....	1	7	10	....	2	1
3. Scarlatina	....	....	3	2	7	7	1	5	..	....	5	6	....	3	..	..	1	....	1	3	..	....	3	....	..	11	....	2	2	1
4. Diphtheria	....	4	1	15	5	7	2	1	1	1	30	14	....	78	1	2	7	....	2	7	2	4	13	14	..	28	10	1	47	..
5. Quinsy	....	....	....	....	2	1	....	1	..	....	....	....	....	1	..	..	....	....	....	....	..	....	....	....	..	....	....	....	....	..
6. Croup	4	1	....	5	4	4	1	6	2	3	6	4	....	18	..	..	1	....	1	....	..	....	2	12	..	13	4	....	10	..
7. Whooping-cough	1	1	1	4	....	....	2	3	..	....	2	3	....	6	..	1	1	....	3	1	..	....	1	....	..	2	9	....	2	1

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Causes of death, 1889.	Counties, 1889.																													
	Gd. Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.
8. Typhoid Fever	2	6	3	11	12	20	6	2	..	5	10	4	46	46	1	1	3	8	14	6	..	..	6	6	..	46	8	4	15	2
8. Typhus Fever	..	1	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8. Typho-malarial Fever	..	..	1	..	1	1	..	4	..	..	..	1	..	1	..	..	1	..	..	1	..	..	..	..	..	..	1	..	..	..
9. Erysipelas	..	3	4	2	2	5	5	1	..	4	8	4	..	10	1	1	4	1	5	2	..	..	2	2	..	1	4	4	3	1
10. Puerperal Fever	..	..	..	..	1	2	1	..	..	2	2	..	..	1	..	..	..	..	..	1	..	..	..	2	..	..	1	..	..	..
11. Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12. Influenza	1	2	6	6	1	2	9	..	..	..	5	1	1	9	..	..	6	..	2	1	..	..	..	5	..	4	..	..	1	..
13. Dysentery	3	4	..	7	2	13	1	..	..	10	9	4	..	5	..	..	..	5	1	1	..	..	2	3	..	1	1	..	3	..
14. Diarrhea	2	1	..	29	4	1	3	..	..	3	4	5	..	27	..	1	3	5	..	2	..	..	12	1	..	4	5	1	5	..
15. Cholera Infantum	9	22	8	5	6	14	13	5	..	4	24	11	5	44	4	4	10	2	18	3	..	1	5	6	..	12	1	9	12	5
16. Cholera Morbus	2	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	3	..	1	..	..	..	..	..	..	1	1	..	2	..
16. Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17. Ague	4	2	1	..	8	1	3	6	..	1	3	9	1	5	..	..	5	1	6	1	..	..	7	..	..	..	..	..	..	1
18. Remittent Fever	..	1	2	1	1	2	1	3	..	2	..	1	..	6	..	2	1	..	..	1	..	..	2	..	..	3	2	2	2	1
19. Rheumatism	1	2	1	1	..	4	4	..	..	1	8	8	..	7	..	1	1	..	8	1	..	..	1	1	..	2	2	2	..	..
20. Leprosy	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
I.—ORDER 2, Enthetic	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1. Syphilis	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2. Stricture of Urethra	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2. Stricture	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

3. Hydrophobia																													
4. Glanders																													
I.—Order 3, Dietic	2			1			1	1						5									1						
1. Privation																													
2. Purpura																													
2. Rachitis														1															
2. Scurvy																													
3. Delirium Tremens (Alcoholism)	2			1				1						3									1						
4. Intemperance							1							1															
5. Opium Eating																													
I.—Order 4, Parasitic				1		3					1								1					1					1
1. Thrush						2					1													1					
2. Worms				1		1													1										1
3. Disease of Scalp																													
Class II.—Constitutional	16	23	42	26	28	46	51	5	1	25	69	65	5	179	3	9	44	11	87	31		12	67	20	2	34	24	30	30	9
II.—Order, Diathetic	7	6	10	13	7	8	14	2		4	20	18	1	42	1	3	16	5	28	9			15	6		6	3	5	8	
1. Gout																														
2. Anæmia																										1				
2. Dropsy	2	1	3	9	1	3	6			2	4	5	4	15		1	3	5	3	3			6	2		4	1	4	4	
3. Cancer	5	5	7	4	4	5	8	2		2	16	12		26	1	1	10		24	5			9	2		1	1		4	
4. Noma (canker)					1									1		1	1							2			1	1		
5. Mortification					1							1					2		1	1										
II.—Order 2, Tubercular	9	17	32	13	21	38	37	3	1	21	49	47	4	137	2	6	28	6	59	22		12	52	14	2	28	21	25	22	9
1. Scrofula														9		1												1		
2. Consumption of bowels		1					1					3		2										2						
3. Phthisis (consumption of lungs)	9	19	32	13	21	37	36	3		21	49	43	4	124	1	5	28	6	59	22		12	52	12	2	27	21	24	22	9

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Causes of death, 1889.	Counties, 1889.																													
	Gd. Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.
4. Hydrocephalus						1						1		1												1				
5. Marasmus									1					1	1															
CLASS III.—LOCAL DISEASES	43	60	92	127	66	116	87	36	7	37	153	175	13	367	21	11	87	22	179	91	3	10	153	64	1	72	45	56	57	20
III.—ORDER 1, Nervous system	19	19	29	52	20	43	22	8	4	16	64	61	3	113	7	5	27	7	66	28	2	3	48	27		16	16	22	27	6
1. Cephalitis		3		15	8	5	2	1		1	2	3		20		1	4	1	8	3		3	10	6		7	4	5	6	1
2. Apoplexy			5			2	2			1	10	8		12	1		1	2	1				3			2		1	1	
3. Paralysis	7	9	15	2	2	19	7			3	28	27		37	1		8	1	27	12			13	3		2	4	3		2
4. Insanity	1			1								4		1									1					1		
5. Chorea			1											1																
6. Epilepsy	4	2										2		1						2				1			1			
7. Tetanus																							1							
8. Convulsions				23	6	8	2	1	3	2	4	6	1	11	3	1	2	1	4	2	2		9	10		2	2	4	12	1
9. Brain disease	5	4	8	4	1	6	6	4		5	17	4		22	1	2	9	2	17	9			9	4		3	4	4	6	2
9. Dropsy of brain				1				1					1						1				1	2					2	
10. Spinal fever	2	1			2		2	1		4	1	1	1	3		1	2										1	3		
11. Spotted fever																														
12. Meningitis				4					1			2		1	1								1							
13. Meningitis, cerebro-spinal				1																										
14. Meningitis, spinal					1	3	1				2	4		4			1		8					1				1		
15. Neuralgia																														

16. Spine disease																													
17. Spine, inflammation of				1																									
18. Frightened																													
III.—Order 2, Organs of circulation	7	11	29	5	6	27	21	5		6	25	42	5	69	2	1	20	2	38	23	1	2	26	8		8	12	9	5	1
1. Pericarditis		3	3	1		3					2			5			2		3				3				1			
2. Aneurism							1					1		2					1											
3. Heart disease	7	8	26	4	6	24	20	5		6	23	41	5	62	2	1	18	2	34	23	1	2	23	8		8	11	9	5	1
4. Emboli																													
III.—Order 3, Respiratory organs	8	16	16	39	18	16	20	16		9	28	42	2	82	4	4	16	10	31	18		2	32	11		25	9	11	17	4
1. Epistaxis											1																			
2. Laryngitis																				1										
3. Bronchitis		1	1	9	2	2	1			1	1	4		8	1		1	3					1			9		1	1	
4. Pleurisy				2	1	1				1				3																
5. Pneumonia	8	13	13	14	14	10	15	14		5	20	34	2	60	3	3	11	7	23	14			30	11		14	8	10	16	2
6. Asthma		1		3		1	2							4			1		5							1				
7. Lung disease			2	11	1	2	2	2		2	6	2		7		1	3		2	3		2	1			1	1			2
8. Catarrh		1										2							1											
III.—Order 4, Digestive organs	6	8	7	25	14	18	16	4	2	2	25	21	2	65	6		10	3	29	12		2	34	14	1	13	7	10	6	5
1. Gastritis	1			1			3	2		1	3	1		2					4				4						1	
2. Enteritis	2	2	4	7	5	4	2	1	2		11	3		29	4		8	1	13	4			12	3		10	5	7	2	3
3. Peritonitis						2					3	1		1	1				3				1	2		1		1		
4. Ascitis																														
5. Ulceration of intestines		1												2																
6. Hernia	1	2				1	1					1		4					1	1						1				
7. Obstruction of bowels																														
8. Intussusception																														

TABLE 77.—Continued.—*Causes of death, classified.*

Causes of death, 1889.	Gd. Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4. Hydrocephalus																														
5. Marasmus																														
16. [illegible] diseases																														
17. Bowel diseases, etc.	1			5	2	5	1	1			2	6	1	4					1	1			4				[illegible]	[illegible]	[illegible]	[illegible]
18. Mouth disease			3																											
III.—Order 5, Urinary organs	1	6	8	5	4	9	7	3	1	8	9	7	1	30	2	1	12		11	8		1	11	2		7	1	[illegible]	3	8
1. Nephritis			1					1		1	1																			
2. Ischuria																														
3. Bright's disease of kidneys		3	4	2	1	3	2	2	1	1	4	3		17	2	1	7		4	6		1	4	2		7		2		
4. Diabetes		1	1	1	2	4	2				4	3	1	2			3		2	1			2				1		1	1
5. Calculus (gravel, etc.)																							1							
6. Cystitis			1				1					1		1			1													
7. Kidney disease	1	2	1	2	1	2	2			1				7			1		5	1			4						1	2

III.—Order 6, Generative organs	1				3									1					1											1
1. Ovarian disease																														
1. Ovarian tumor	1																		1											
2. Disease of uterus					3									1																1
3. Hydrocele																														
III.—Order 7, Organs of locomotion							1																							
1. Arthritis																														
2. Joint diseases							1																							
III.—Order 8, Integumentary system	1		3	1	1	3				1	2	2		7			2		3	2			2	2		3		2		
1. Phlegmon	1			1		1						1		2					1					2		2		1		
2. Ulcers																							1							
3. Skin disease			3		1	2				1	2	1		5			2		2	2			1			1		1		
Class IV.—Developmental Diseases	15	32	33	75	49	53	43	28	3	22	69	67	9	185	7		33	18	71	26	1	6	55	37	1	83	20	19	72	18
IV.—Order 1, Dev. diseases of children	6	16	12	59	37	28	18	23	3	17	27	24	5	100	6		20	9	20	10	1	5	29	25		52	13	12	62	13
1. Stillborn	4	5	10	29	23	18	8	9	1	5	16	19	1	63	4		12	5	11	5	1	3	17	18		33	7	5	39	10
2. Infantile	1	11	2	22	13	6	9	9	2	10	8	4	4	31			7	4	8	3		2	7	6		9	6	7	19	3
2. Premature birth				1		4		3			3	1		4	1		1			1			4						2	
3. Cyanosis															1															
4. Spina bifida																														
5. Other malformations										2									1	1										
6. Teething	1			7	1		1	2						1									1	1		10			2	
7. Injury at birth														1																
IV.—Order 2, Dev. diseases of women	2	3	1	5	6	4	5	3		2	4	7	3	17			2		6	1		1	4	3		4	3	2	2	1
1. Dysmenorrhea																														
1. Turn of life		1					1																							

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Causes of death, 1889.	Counties, 1889.																													
	Gd. Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Maniton.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.
2. Childbirth	2	2	1	5	6	4	4	3	..	2	4	7	3	16	..	..	2	....	6	1	..	1	4	3	..	4	3	2	2	1
2. Abortion	....	....	....	....	....	....	....	....	..	....	....	....	....	1	..	..	....	....	....	....	..	....	....	....	..	....	....	....	....	..
2. Uterine hemmorhage	....	....	....	....	....	....	....	....	..	....	....	....	....	....	..	..	....	....	....	....	..	....	....	....	..	....	....	....	....	..
IV.—ORDER 3, Dev. dis. of old people	7	13	18	7	5	21	18	1	..	3	31	27	....	56	..	..	8	9	39	10	..	....	17	7	1	8	3	3	8	3
1. Old age	7	13	18	7	5	21	18	1	..	3	31	27	....	56	..	..	8	9	39	10	..	..	17	7	1	8	3	3	8	3
IV.—ORDER 4, Diseases of nutrition	....	....	2	4	1	....	2	1	..	....	7	9	1	12	1	..	3	....	6	5	..	....	5	2	..	19	1	2	....	1
1. Atrophy and debility	....	....	2	4	1	....	2	1	..	....	7	9	1	12	1	..	3	....	6	5	..	....	5	2	..	19	1	2	....	1
CLASS V.—VIOLENT DEATHS	5	13	14	40	11	20	8	12	1	8	22	22	7	41	7	2	8	6	15	11	..	5	18	8	..	73	12	9	38	3
V.—ORDER 1, Accident or negligence	1	3	8	24	5	8	5	6	..	5	10	10	1	12	3	..	4	1	7	8	..	5	3	4	..	11	5	7	14	2
1. Fractures and contusions	....	1	2	1	....	1	2	2	..	....	2	8	....	3	1	..	1	....	2	2	..	2	....	....	..	....	....	4	6	..
2. Wounds	....	1	1	....	....	1	....	....	..	1	1	....	....	....	..	..	....	....	....	....	..	....	....	....	..	....	....	....	....	..
3. Burns and scalds	....	....	1	14	3	1	1	2	..	1	1	....	....	1	..	..	1	....	....	....	..	2	1	2	..	5	1	1	....	1
4. Poison	....	....	1	3	....	1	....	....	..	1	2	....	....	1	..	..	....	....	....	....	..	....	....	....	..	1	....	1	2	..
5. Drowning	1	1	....	5	....	3	2	1	..	....	1	....	....	5	1	..	1	1	1	4	..	1	....	2	..	....	....	....	4	..
6. Suffocation	....	....	....	....	....	....	....	....	..	....	1	2	1	....	..	..	1	....	3	1	..	....	....	....	..	....	1	1	1	..
7. Otherwise	....	....	3	1	2	1	....	1	..	2	2	....	....	2	1	..	....	....	1	1	..	....	2	....	..	5	3	....	1	1
V—ORDER 2, In battle	....	....	....	....	....	....	....	....	..	....	....	....	....	....	..	..	....	....	....	....	..	....	....	....	..	....	....	....	....	..
V.—ORDER 3, Homicide	....	....	....	....	2	2	....	....	..	....	1	....	....	2	..	..	....	....	....	....	..	....	2	....	..	....	1	....	....	..
1. Murder	....	....	....	....	2	2	....	....	..	....	1	....	....	2	..	..	....	....	....	....	..	....	2	....	..	....	1	....	....	..

—Order 4, Suicide	2		2	1	1	1	1	1			4	4		7			1	1		1			5	1		2	1		2	1
1. Wounds							1							1			1						1							
2. Poison											2			2																1
3. Drowning	1																							1						
4. Hanging	1			1																			1				1			
5. Otherwise and not specified			2		1	1		1			2	4		4				1		1			3			2			2	
V.—Order 5, Execution																														
1. Hanging																														
V.—Order 6, Violent deaths not included above	2	10	4	15	3	9	2	5	1	3	7	8	6	20	4	2	3	4	8	2			8	3		60	5	2	22	
Unclassified		1	1		2	3				3	4			2			2		2	1									1	2
1. Head disease																	1													
2. Hemorrhage						1					1			1						1										
3. Inflammation		1	1		2	2				2	3			1			1		2										1	2
4. Otherwise										1																				
Causes not specified	3	6	5	37	19	5	14	11	3	12	9	20	5	59	3	4	7	14	14	11	5	16	16	30	3	32	9	6	45	5

VITAL STATISTICS OF MICHIGAN, 1889.

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	444	[illegible]	[illegible]	113	[illegible]	34	[illegible]	18	19	375	46	7	906	264	38	167	450	230	281	281	344	4,005	77
	[illegible]	[illegible]	242	21	410	97	392	101	23	31	89	17	16	362	30	7	938	237	30	164	420	283	271	274	332	3,772	72
	1	12	23	4	34	19	15	12	2	3	4	1	3	13	16	...	60	27	6	3	30	6	10	7	12	233	5
CLASSES.																											
I. Zymotic diseases	6	45	62	9	129	25	53	17	3	8	17	10	2	97	5	1	287	49	12	36	105	41	63	47	70	1,065	27
II.—Constitutional diseases	6	58	41	...	56	17	79	16	4	7	17	1	5	55	4	...	144	37	6	37	67	52	46	64	59	559	9
III.—Local diseases	7	85	87	3	110	28	166	37	8	9	30	3	1	124	8	1	293	70	3	49	138	86	97	110	110	1,217	20
IV.—Developmental diseases	7	56	32	8	85	13	70	24	2	7	23	...	7	66	10	2	156	59	4	33	82	40	56	43	73	739	12
V.—Violent deaths	2	13	20	1	21	14	13	6	4	...	2	3	1	20	3	3	50	19	5	8	25	14	8	8	16	182	4
Unclassified	...	...	...	...	9	...	1	1	2	...	...	...	...	...	...	...	8	3	...	1	3	...	1	2	4	10	...
ORDERS.																											
I.—1. Miasmatic diseases	6	45	59	9	127	25	53	17	3	8	17	10	2	97	5	1	287	47	12	35	105	40	62	47	70	1,061	27
2. Enthetic diseases	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...
3. Dietic diseases	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	1	...	...	...	2	...
4. Parasitic diseases	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...
II.—1. Diathetic diseases	1	22	11	...	10	4	24	9	...	3	4	...	...	20	1	...	36	10	1	10	22	18	16	18	25	140	4
2. Tubercular diseases	5	36	30	...	46	13	55	7	4	4	13	1	5	35	3	...	108	27	5	27	45	34	30	46	34	419	5
III.—1. Diseases of nervous system	3	24	25	...	41	13	59	11	3	3	8	2	...	46	4	...	111	20	...	18	46	31	34	29	37	410	3
2. Diseases of organs of circulation	1	11	12	...	15	3	36	9	1	5	6	1	1	15	1	...	55	6	1	8	25	14	22	15	23	199	3

3. Diseases of respiratory organs	2	34	25	2	33	7	29	13	3	...	5	...	...	34	2	1	77	18	2	11	33	15	22	39	25	354	7
4. Diseases of digestive organs	...	16	15	1	12	3	18	1	...	1	4	...	...	18	...	...	29	15	...	5	18	19	14	16	9	166	6
5. Diseases of urinary organs	...	7	6	...	8	2	20	2	1	...	6	...	...	7	...	...	10	7	...	6	13	6	4	6	15	56	2
6. Diseases of generative organs	...	1	1	...	...	...	...	...	...	...	...	...	...	2	...	...	...	1	...	...	1	1	...	3	...	3	...
7. Diseases of organs of locomotion	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	1	4	...
8. Diseases of integumentary system	1	2	2	...	1	...	4	1	...	...	1	...	...	2	1	...	9	3	...	1	2	...	1	2	...	25	...
IV.—1. Developmental diseases of children	5	24	20	7	57	10	30	15	1	4	11	...	6	34	10	2	87	27	3	18	49	10	33	18	20	451	6
2. Developmental diseases of women	1	6	1	1	4	1	3	3	1	1	5	...	...	5	...	...	9	7	...	8	6	2	6	2	5	43	...
3. Developmental diseases of old people	1	18	10	...	17	2	33	4	...	2	5	...	1	21	...	...	36	22	...	7	19	24	14	11	38	146	5
4. Diseases of nutrition	...	8	1	...	7	...	4	2	...	...	2	...	...	6	...	...	24	3	1	...	8	4	3	12	10	99	1
V.—1. Accident or negligence	1	8	9	1	13	6	8	1	2	...	2	...	1	11	2	2	35	10	3	4	16	7	7	4	7	118	...
2. Battle	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3. Homicide	...	...	1	...	...	...	2	...	1	...	...	...	...	...	...	...	2	...	...	...	1	...	...	...	2	4	1
4. Suicide	...	1	2	...	5	2	1	...	...	...	...	...	...	2	1	...	4	2	...	2	1	1	1	1	1	15	1
5. Execution	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6. Violent deaths	1	4	8	...	3	6	2	5	1	...	...	3	...	7	...	1	9	7	2	2	7	6	...	3	6	45	3
CLASS I.—ZYMOTIC	6	45	62	9	129	25	53	17	3	8	17	10	2	97	5	1	287	49	12	36	105	41	63	47	70	1,065	27
I.—ORDER 1, Miasmatic	6	45	59	9	127	25	53	17	3	8	17	10	2	97	5	1	287	47	12	35	105	40	62	47	70	1,061	27
1. Small-pox	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2. Measles	...	1	4	...	...	1	...	4	...	...	1	...	...	5	...	1	...	...	...	...	...	...	...	...	1	19	...
3. Scarlatina	...	...	9	2	1	...	2	...	...	...	2	...	...	...	...	...	11	4	...	...	2	2	1	1	5	90	...
4. Diphtheria	...	5	...	1	44	4	3	...	...	4	...	...	...	17	...	...	97	1	4	2	2	2	10	2	18	233	1
5. Quinsy	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	3	...
6. Croup	...	4	...	...	14	...	1	3	...	...	...	...	...	6	...	...	33	4	1	4	18	1	1	1	4	161	...
7. Whooping-cough	...	2	4	...	3	2	3	...	...	1	2	...	...	1	...	...	2	4	...	3	6	3	1	...	...	29	...

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Causes of death, 1889.	Counties, 1889.																										
	Missaukee.	Monroe.	Montcalm.	Montmorency.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
8. Typhoid Fever	----	9	9	----	14	4	7	5	----	----	2	----	1	19	1	----	35	10	----	11	14	12	8	5	6	70	5
8. Typhus Fever	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1	----
8. Typho-malarial Fever	----	----	----	----	----	----	----	----	1	----	1	2	----	3	----	----	1	----	----	----	7	----	2	1	----	2	1
9. Erysipelas	1	2	3	----	5	----	6	----	----	----	2	1	----	12	1	----	11	3	1	1	8	3	4	7	6	31	3
10. Puerperal Fever	----	----	----	----	1	----	1	----	----	----	----	----	----	1	----	----	1	----	----	----	----	1	1	2	----	4	----
11. Carbuncle	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1	----	----	----	1	----	----
12. Influenza	2	3	3	6	4	1	2	----	----	1	----	----	----	1	----	----	3	4	1	1	1	1	2	3	3	39	2
13. Dysentery	----	5	3	----	----	----	7	1	----	----	----	----	----	2	----	----	2	2	----	1	----	1	2	----	9	14	----
14. Diarrhea	1	1	2	----	11	2	2	1	----	----	----	----	----	23	3	----	30	1	----	6	4	1	3	----	1	162	6
15. Cholera Infantum	----	5	14	----	18	7	9	1	2	----	5	1	1	3	----	----	38	9	5	5	20	8	16	13	8	96	7
16. Cholera Morbus	1	1	4	----	----	----	1	----	----	2	----	----	----	----	----	----	1	----	----	----	3	1	----	3	----	15	1
16. Cholera	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
17. Ague	----	1	1	----	5	3	2	1	----	----	----	----	----	1	----	----	13	4	----	----	13	2	8	5	2	34	1
18. Remittent Fever	----	3	3	----	2	1	2	----	----	----	----	6	----	1	----	----	----	1	----	----	3	----	2	----	2	29	----
19. Rheumatism	----	1	----	----	3	----	5	1	----	----	2	----	----	2	----	----	9	----	----	1	3	2	1	3	4	39	----
20. Leprosy	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
I.—ORDER 2, Enthetic	----	----	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1	----	----	----	----	----	1	----
1. Syphilis	----	----	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1	----	----	----	----	----	1	----
2. Stricture of Urethra	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
2. Stricture	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
3. Hydrophobia	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

4. Glanders																										
I.—Order 3, Dietic			1		2												2				1				2	
1. Privation																										
2. Purpura																										
2. Rachitis			1		1																					
2. Scurvy																										
3. Delirium Tremens (Alcoholism)																										
4. Intemperance					1												2				1				2	
5. Opium Eating																										
I.—Order 4, Parasitic			1																			1			1	
1. Thrush																										
2. Worms			1																			1			1	
3. Disease of Scalp																										
Class II.—Constitutional	6	58	41		56	17	79	16	4	7	17	1	5	55	4		144	37	6	37	67	52	46	64	59	559	9
II.—Order 1, Diathetic	1	22	11		10	4	24	9		3	4			20	1		36	10	1	10	22	18	16	18	25	140	4
1. Gout																							1				
2. Anæmia							1																				
2. Dropsy	1	6	6		6	2	7	4			1			13			16	5		1	9	11	6	3	7	60	3
3. Cancer		15	4		4	2	16	5		3	3			7	1		20	3	1	9	11	6	7	13	15	76	1
4. Noma (canker)		1	1															1			1						
5. Mortification																		1			1	1	2	2	3	4	
II.—Order 2, Tubercular	5	36	30		46	13	55	7	4	4	13	1	5	35	3		108	27	5	27	45	34	30	46	34	419	5
1. Scrofula	1				1									1			1				1		1	1		3	
2. Consumption of bowels			1														1	1								4	
3. Phthisis (consumption of lungs)	4	36	29		45	13	54	7	4	2	13	1	5	34	3		105	26	5	27	42	34	28	45	34	404	5

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Causes of death, 1889.	Counties, 1889.																										
	Missaukee.	Monroe.	Montcalm.	Montmorency	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
4. Hydrocephalus							1														1						
5. Marasmus										2							1				1		1			8	
CLASS III.—LOCAL DISEASES	7	85	87	3	110	28	166	37	8	9	30	3	1	124	8	1	293	70	3	49	138	86	97	110	110	1217	20
III.—ORDER 1, Nervous system	3	24	25		41	13	59	11	3	3	8	2		46	4		111	20		18	46	31	34	29	37	410	3
1. Cephalitis	1	6	5		11	2	3	1	1		1	1		21	1		16	4		4	7	1	4	1	3	67	2
2. Apoplexy			1			1	13			1				6			5	1		2	3	2	2	2	4	16	
3. Paralysis		6	7		7	5	17	1	1		2	1		5			18	2		4	9	16	9	16	9	59	
4. Insanity		1					3	1																		10	
5. Chorea					1																						
6. Epilepsy		1			1		3				1			2				3						1	1	6	
7. Tetanus					1																	2	1				
8. Convulsions	1	5	1		3	1	6	3	1	2	2			5	2		35	7		4	13		10		9	173	
9. Brain disease		2	5		12	2	10	3			1			5	1		23	2		4	10	5	7	7	9	54	
9. Dropsy of brain			1		1	1	1										1	1			2	1	1			6	
10. Spinal fever	1	3	4		4	1	1				1			2			7				1	2					
11. Spotted fever																											
12. Meningitis							1	2													1					6	
13. Meningitis, cerebro-spinal																											
14. Meningitis, spinal			1														6					2		2	2	12	1
15. Neuralgia																											

16. Spine disease							1																				
17. Spine, inflammation of																										1	
18. Frightened																											
III.—Order 2, Organs of circulation	1	11	12		15	3	36	9	1	5	6	1	1	15	1		55	6	1	8	25	14	22	15	23	190	2
1. Pericarditis		1	2				1	1						1			4				2		2			11	1
2. Aneurism			1				1											1							1	6	
3. Heart disease	1	10	9		15	3	34	8	1	5	6	1	1	14	1		51	5	1	8	23	14	20	15	22	182	1
4. Emboli																											
III.—Order 3, Respiratory organs	2	24	25	2	33	7	29	13	3		5			34	2	1	77	18	2	11	33	15	22	39	25	354	7
1. Epistaxis																											
2. Laryngitis																							1				
3. Bronchitis			2				1		1					3			5	1			5	1	1	2	1	41	1
4. Pleurisy		1	1				1										1	1								9	
5. Pneumonia		18	18		25	4	24	10	1		4			23		1	55	15		9	23	10	14	33	22	221	6
6. Asthma	1	1			2									5			2					3		1		17	
7. Lung disease	1	4	4	2	4	2	3	3	1					1	2		13		2	2	4		3	3	2	60	
8. Catarrh					2	1					1			2			1	1			1	1	3			6	
III.—Order 4, Digestive organs		16	15	1	12	3	18	1		1	4			18			29	15		5	18	19	14	16	9	166	6
1. Gastritis		3	1		1												1	1								10	
2. Enteritis		5	8		4		3	1		1				10			19	8		1	7	3	6	9	3	56	3
3. Peritonitis				1	2		2							1			5					5				12	
4. Ascitis																											
5. Ulceration of intestines																										1	
6. Hernia		1	3		1	1	4				1			2								1				4	
7. Obstruction of bowels																											
8. Intussusception																											

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Causes of death, 1889.	Counties, 1889.																									
	Missaukee.	Monroe.	Montcalm.	Montmorency.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
9. Stricture of intestines		1					1													1						1	
10. Fistula																											
11. Stomach diseases		1	1		1		2							4			4	1		2	5	7	4	1	4	37	
12. Pancreas diseases																											
13. Hepalitis							1													1						1	
14. Biliary calculus																											
14. Jaundice			1		1						1										2		1	1		9	1
15. Liver disease		3	1			1	4				1			1				3			2	1	2	4	2	17	2
16. Spleen disease							1				1													1			
17. Bowel diseases, etc.		2			2	1												1			2	2	1			18	
18. Mouth disease																		1									
III.—ORDER 5, Urinary organs		7	6		8	2	20	2	1		6			7			10	7		6	13	6	4	6	15	56	2
1. Nephritis		1	1								1										1					3	1
2. Ischuria																											
3. Bright's disease of kidneys		2	3		7		10				4			5			3	2		4	6	1	2	3	5	22	1
4. Diabetes		3	1			1					1						1	1		1	3	2		1	4	4	
5. Calculus (gravel, etc.)							1															1			1	2	
6. Cystitis						1	3																	2	1	2	
7. Kidney disease		1	1		1		6	2	1					2			6	4		1	3	2	2		4	23	

III.—Order 6, Generative organs		1	1											2				1			1	1		3		3	
1. Ovarian disease																											
1. Ovarian tumor			1															1			1			3		1	
2. Disease of uterus		1												2								1				2	
3. Hydrocele																											
III.—Order 7, Organs of locomotion			1														2								1	4	
1. Arthritis																											
2. Joint diseases			1														2								1	4	
III.—Order 8, Integumentary system	1	2	2		1		4	1			1			2	1		9	3		1	2		1	2		25	
1. Phlegmon	1				1						1			1			1	1		1	2					7	
2. Ulcers		1	1																							3	
3. Skin disease		1	1				4	1						1	1		8	2					1	2		15	
Class IV.—Developmental Diseases	7	56	32	8	85	13	70	24	2	7	23		7	66	10	2	156	59	4	33	82	40	56	43	73	739	12
IV.—Order 1, Dev. diseases of children	5	24	20	7	57	10	30	15	1	4	11		6	34	10	2	87	27	3	18	49	10	33	18	20	451	6
1. Stillborn	2	15	10	6	37	6	23	7		3	7		3	26	3		53	11	1	12	32	6	22	13	15	301	3
2. Infantile	3	7	10	1	16	3	5	8	1		3		3	6	7	2	28	15	2	6	14	4	9	5	5	102	3
2. Premature birth		2					1				1						4				2					9	
3. Cyanosis																	1										
4. Spina bifida							1																				
5. Other malformations					2	1								1									2				
6. Teething					2					1				1			1	1			1					38	
7. Injury at birth																										1	
IV.—Order 2, Dev. diseases of women	1	6	1	1	4	1	3	3	1	1	5			5			9	7		8	6	2	6	2	5	43	
1. Dismenorrhea																											
1. Turn of life																		1		1	1			1		1	

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Causes of death, 1889.	Counties, 1889.																										
	Missaukee.	Monroe.	Montcalm.	Montmorency.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
2. Childbirth	1	5	1	1	4		3	3	1	1	4			5			8	6		7	5	1	6	1	5	41	
2. Abortion		1				1					1						1					1				1	
2. Uterine hemorrhage																											
IV.—ORDER 3, Dev. diseases of old people	1	18	10		17	2	33	4		2	5		1	21			36	22		7	19	24	14	11	38	146	5
1. Old age	1	18	10		17	2	33	4		2	5		1	21			36	22		7	19	24	14	11	38	146	5
IV.—ORDER 4, Diseases of nutrition		8	1		7		4	2			2			6			24	3	1		8	4	3	12	10	99	1
1. Atrophy and debility		8	1		7		4	2			2			6			24	3	1		8	4	3	12	10	99	1
CLASS V.—VIOLENT DEATHS	2	13	20	1	21	14	13	6	4		2	3	1	20	3	3	50	19	5	8	25	14	8	8	16	182	4
V.—ORDER 1, Accident or negligence	1	8	9	1	13	6	8	1	2		2		1	11	2	2	35	10	3	4	16	7	7	4	7	118	
1. Fractures and contusions		5	1		1		2							3		1	8	3			2	2	3	1	1	34	
2. Wounds				1	1									3			4				1				1		
3. Burns and scalds	1				2	2	1						1	2			5	1		1	1	2	1	2	1	11	
4. Poison											1			1			1				2	1				8	
5. Drowning		3	4		8	1	1		2		1			2	1	1	7	4	3	1	9		2		3	17	
6. Suffocation			3				1													2		2	1			3	
7. Otherwise			1		1	3	3	1							1		10	2			1			1	1	45	
V.—ORDER 2, In battle																											
V.—ORDER 3, Homicide			1				2		1								2				1				2	4	1
1. Murder			1				2		1								2				2				2	4	1

V.—Order 4, Suicide	...	1	2	...	5	2	1	...	...	...	...	...	...	2	1	...	4	2	...	2	1	1	1	1	1	15	1
1. Wounds	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	1	...	1	...
2. Poison	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
3. Drowning	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...
4. Hanging	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	1	...
5. Otherwise and not specified	...	...	2	...	4	2	1	...	...	...	...	...	...	1	...	...	2	1	...	2	1	...	1	...	1	12	1
V.—Order 5, Execution	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1. Hanging	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
V—Order 6, Violent deaths not included above	1	4	8	...	3	6	2	5	1	...	...	3	...	7	...	1	9	7	2	2	7	6	...	3	6	45	2
Unclassified	...	...	...	...	9	...	1	1	2	...	...	...	...	...	...	...	8	3	...	1	3	...	1	2	4	10	...
1. Head disease	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...
2. Hemorrhage	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	1	2	...	...	...	1	7	...
3. Inflammation	...	...	...	...	6	...	1	1	2	...	...	...	...	...	...	...	5	3	...	...	1	...	1	...	1	3	...
4. Otherwise	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	2	...	...	...
Causes not specified	1	15	23	4	34	19	15	12	2	3	4	1	3	13	16	...	60	27	6	3	30	6	10	7	12	233	5

TABLE 78.—*Exhibiting by sex, by months, by specified causes, and by ages in periods of years, the number of deaths returned for the year 1889, also by sex and specified causes, the number of deaths returned for each of the years, 1884–1889, inclusive. (Stillbirths included.)*

Sex.	Months, 1889.													Years.						Ages in periods of years,—1889.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1889.	1888.	1887.	1886.	1885.	1884.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Totals	1409	1266	1676	1585	1454	1389	1677	2214	2025	1894	1712	1951	63	20315	21764	19482	18187	16646	18056	7664	914	508	711	940	857	770	687	623	633	642	670	822	908	918	801	963	284
Males	751	682	857	851	780	743	945	1190	1079	1068	936	1067	35	10984	11722	10563	9725	9025	9589	4106	468	252	334	481	447	365	334	333	335	391	395	454	557	529	467	557	179
Females	656	582	815	733	673	641	726	1024	942	824	773	881	27	9297	10024	8877	8402	7569	8385	3524	446	256	377	459	410	405	353	290	298	251	275	368	351	389	334	406	105
Unknown	2	2	4	1	1	5	6	....	4	2	3	3	1	34	18	42	60	52	82	34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1889.												Years.						Causes of death.	Ages in periods of years,—1889.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1889.	1888.	1887.	1886.	1885.	1884.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females		1		2		1	1	2				1		8	5	11	7	12	6	Abortion				3		1	3	1									
Females												1		1						Abuse						1											
Males																	1	2		Abscess of back																	
Females																2		1		" "																	
Totals									1		1	2		4	2	3	6	3	5	Abscess of bowels				1	1	1		1									
Males									1		1			2	2		4	3	4	" "				1				1									
Females												2		2		3	2		1	" "					1	1											
Totals		1			1	1	1			1	1			6	16	11	4	1	3	Abscess of brain	3						1		1			1					
Males					1	1				1				3	10	7	1	1	3	" "	2											1					
Females		1					1				1			3	6	4	3			" "	1						1		1								
Males															1			1		Abscess of groin																	
Females																	1		1	" "																	
Totals	1	1		1				1						4		5			5	Abscess on head	2			1								1					
Males		1		1										2		4			5	" "				1								1					
Females	1							1						2		1				" "	2																
Males																			5	Abscess on hip																	
Females									1		1			2					1	" "							1		1								
Totals					1						1			2	2		1	2		Abscess of kidneys						1					1						
Males					1									1	2		1	2		" "						1											
Females											1			1						" "											1						
Males																		1		Abscess on leg																	

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1889.												Years.						Causes of death.	Ages in periods of years,—1889.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1889.	1888.	1887.	1886.	1885.	1884.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males																			2	Abscess of neck																		
Females						1								1						" "	1																
Males				1										1		1				Abscess pelvic								1									
Females															1	3	2	1		" "																	
Totals			1		2	1		2						6	5	5	8	9	3	Abscess in side						3	1		2								
Males					1	1		1						3	3	3	5	6	1	" "						2			1								
Females			1		1			1						3	2	2	3	3	2	" "						1	1		1								
Males		1												1		1				Abscess of spine					1												
Females															1				1	" "																	
Males			1					1		1	1			4	5	4	1	1	3	Abscess of stomach					1				2							1	
Females															2	2	1			" "																	
Totals	2	3	3	1	2	1	4	4	3	2	3	5		33	41	29	45	32	34	Abscess	8	3	2	2	4	2			2			2	2	3	2			1
Males	2	1	2	1	2			3	1	1	1	2		16	19	14	25	15	15	"	3	1	2		1	2			1			2		1	2	2		1
Females		2	1			1	4	1	2	1	2	3		17	22	15	20	17	19	"	5	2		2	3				1				2	2				
Males															1					Amputation of arm																		
Males			1	1										2	7		4	3		Amputation of leg				1													1
Females															1					" "																		
Males		1		2							1			4			7			Amputation					1	2	1										
Males															3	4		2	4	Anæmia																	
Females		1		1										2		4	3	1	4	"				1				1									
Males															2	3		2	1	Aneurism																	

Females																1		1		"																				
Males			1			1								2	1		1		1	Angina Pectoris														1		1			
Females															2		1		1	" "																				
Totals	14	7	18	8	14	9	8	16	18	12	17	10	1	147	144	135	158	116	130	Apoplexy	1	2	1	1	1	2	6	6	7	10	9	15	25	23	13	14	7	4
Males	6	2	10	8	5	7	5	11	11	11	8	8		92	97	76	93	68	81	"	1			1	1	1	3	3	4	9	5	9	14	15	10	12	3	1
Females	8	5	3		9	2	3	5	7	1	9	2	1	55	47	59	65	48	49	"		2	1			1	3	3	3	1	4	6	11	8	3	2	4	3
Totals	4	3	5	6	7	7	5	2	3	7	4	6		59	65	59	66	62	61	Asthma	3			2	1	1		2	1	3	10	6	9	6	7	5	2	1
Males	4	1	3	5	6	4	5	1	2	4	2	4		41	40	33	42	35	39	"	1			2	1	1		1	1	2	8	5	5	4	4	4	1	1
Females		2	2	1	1	3		1	1	3	2	2		18	25	26	24	27	22	"	2							1		1	2	1	4	2	3	1	1	
Totals		1		1	1							2		5	5	10	4	4	1	Birth, injury at	5																	
Males		1		1								2		4	2	5	2	1	1	" "	4																	
Females					1									1	3	5	2	3		" "	1																	
Totals	7	2	6	3	5	6	3	6	7	1	3	4		53	69	52	38	56	53	Birth premature	53																	
Males	3	1	4	2	2	4	1	4	7	1	2	4		35	41	33	20	38	22	" "	35																	
Females	4	1	2	1	3	2	2	2			1			18	28	19	18	18	28	" "	18																	
Unknown																			3	" "																		
Males					2	1	2			2	1	1		9	9	3	3	3	4	Bladder, disease of	1									1	1	1		2		2	1	
Females							1	1						2			1	1	1	" "							1									1		
Totals	2	1	2	2	1		1	1	1	2	3	4		20	5	24	23	15	12	Bladder, inflam. of			1		1	1	1		1			1	2	5	2	1	4	
Males	2		2	2	1		1		1	1	2	3		15	4	22	23	13	12	" "						1			1				1	5	2	1	4	
Females		1						1		1	1	1		5	1	2		2		" "			1		1		1					1	1					
Males																2			1	Bladder, rupture of																		
Totals	2			2	2	2		1	4	3	4	1		21	31	24	21	19	34	Bowels, consump. of	4				2	2		2	3		2	1	2	1		1		1
Males	1			2				1	3	3	2	1		13	16	11	10	9	18	" "	2				2	1		1	3		1		1	1		1		
Females	1				2	2			1		2			8	15	13	11	10	16	" "	2					1		1			1	1	1					1
Totals	2	2	2	3	8	7	13	7	10	4	1	5		64	51	60	46	25	45	Bowels, disease of	37	2			2	1	2	2	2		4	2	1	3	4		2	
Males	1	2	1	1	6	4	4	3	4	2	1	2		31	28	36	24	14	20	" "	15	1			1	1	2				3	2		3	2		1	
Females	1		1	2	2	3	9	4	6	2		3		33	23	24	22	11	25	" "	22	1			1			2	2		1		1		2		1	

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1889.													Years.						Causes of death.	Ages in periods of years,—1889.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1889.	1888.	1887.	1886.	1885.	1884.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Totals	16	20	24	17	30	25	22	57	50	25	34	32	..	352	390	339	327	324	350	Bowels, inflam. of	111	25	20	23	26	19	12	14	10	12	14	10	16	10	12	11	3	4
Males	4	9	10	10	16	14	13	30	28	12	20	18	..	184	219	188	168	169	185	" "	61	14	10	14	11	7	4	6	4	6	10	4	12	5	5	8	1	2
Females	12	11	14	7	14	11	9	27	22	13	14	14	..	168	171	151	159	155	165	" "	50	11	10	9	15	12	8	8	6	6	4	6	4	5	7	3	2	2
Totals	1	...	1	...	...	...	...	1	...	...	...	1	..	4	8	6	3	8	8	Bowels, obstruc'n of	...	...	...	...	1	...	1	...	...	...	1	...	...	1	...	...	...	..
Males	1	...	...	...	...	...	...	1	...	...	...	1	..	3	6	3	3	5	5	" "	...	...	...	...	...	...	1	...	...	...	1	...	...	1	...	...	...	..
Females	...	...	1	...	...	...	...	...	...	...	...	...	..	1	2	3	...	3	3	" "	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	..
Totals	...	...	...	1	...	...	...	1	1	2	2	1	..	8	3	2	2	2	2	Bowels, rupture of	...	...	...	1	...	2	1	1	1	...	...	...	1	...	1	...	..
Males	...	...	...	1	...	...	...	...	1	1	2	1	..	6	2	2	1	1	2	" "	...	...	...	1	...	1	...	1	1	...	...	...	1	...	1	...	..
Females	...	...	...	...	...	...	...	1	...	1	...	...	..	2	1	...	1	1	...	" "	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	..
Totals	...	...	...	...	...	...	...	1	...	...	...	1	..	2	8	7	4	3	5	Bowels, ulceration of	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	..
Males	...	...	...	...	...	...	...	...	...	...	...	1	..	1	5	6	2	1	4	" "	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	..
Females	...	...	...	...	...	...	...	1	...	...	...	...	..	1	3	1	2	2	1	" "	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Males	...	...	...	...	...	...	...	...	...	...	1	...	..	1	...	...	1	...	...	Brain, compression of	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Totals	2	...	...	1	1	2	...	2	...	...	...	1	..	9	8	3	4	12	11	Brain, concussion of	2	...	...	1	1	...	2	1	1	...	1	...	...	...	...	...	...	..
Males	1	...	...	1	1	1	...	2	...	...	...	...	..	6	5	3	3	9	11	" "	...	...	...	...	1	...	2	1	1	...	1	...	...	...	...	...	...	..
Females	1	...	...	...	...	...	1	...	...	...	...	1	..	3	3	...	1	3	...	" "	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Totals	12	14	24	13	12	12	10	21	14	15	13	13	.	173	152	175	146	175	158	Brain, disease of	97	8	3	5	5	4	4	6	6	7	6	7	3	5	2	2	1	3
Males	7	9	12	3	6	7	7	10	5	7	8	9	..	90	88	84	82	103	92	" "	57	3	1	...	2	2	3	1	2	3	3	5	2	3	...	2	...	1
Females	5	5	12	10	6	5	3	11	9	8	5	4	..	83	64	91	64	72	66	" "	40	5	2	5	3	2	1	5	4	4	3	2	1	2	2	...	1	1
Totals	24	20	34	34	25	20	34	44	39	23	14	30	..	341	405	319	334	296	310	Brain, inflam. of	214	36	12	8	16	9	3	11	4	3	8	4	4	3	2	2	...	3
Males	14	10	16	18	15	14	22	20	23	12	9	15	..	190	218	156	172	157	177	" "	113	24	5	5	11	6	2	4	1	2	6	4	2	2	1	1	...	1

Females	10	10	18	16	10	6	12	24	14	11	5	15	..	151	187	163	160	139	133	" "	101	12	7	3	5	3	1	7	3	1	2	..	2	1	1	1	..	1
Totals	1	1	5	1	2	..	..	..	..	2	4	..	..	16	18	19	17	20	11	Brain, paralysis of	..	..	..	..	..	..	1	..	3	..	1	2	2	..	1	4	1	1
Males	..	1	3	1	2	..	..	..	..	1	4	..	..	12	12	9	8	10	5	" "	..	..	..	..	..	..	1	..	2	..	1	2	1	..	1	3	..	1
Females	1	..	2	..	..	..	..	..	..	1	..	..	..	4	6	10	9	10	6	" "	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	1	1	..
Totals	1	4	3	3	5	1	2	3	4	4	4	5	..	39	37	38	30	36	40	Brain, softening of	1	..	..	1	..	..	2	..	3	2	2	3	10	3	3	6	3	..
Males	1	4	..	3	3	1	1	2	3	2	4	3	..	27	22	26	26	27	28	" "	..	..	..	1	..	..	..	..	3	2	2	2	8	2	2	2	3	..
Females	..	..	3	..	2	..	1	1	1	2	..	2	..	12	15	12	4	9	12	" "	1	..	..	..	..	..	2	..	..	..	..	1	2	1	1	4	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	2	..	..	Breast disease	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	1	1	..	..	..	..	..	..	..	..	..	..	2	4	2	..	..	..	Bronchitis, capill'ry	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	2	2	1	..	" "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals	2	1	..	..	1	..	..	1	..	..	..	1	..	6	4	3	2	4	..	Bronchitis, chronic	1	..	..	..	..	..	..	..	..	1	1	2	..	..	..	1	..
Males	1	..	..	..	1	..	..	..	..	..	..	..	..	2	2	2	..	3	..	" "	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..
Females	1	1	..	..	..	..	..	1	..	..	..	1	..	4	2	1	2	1	..	" "	1	..	..	..	..	..	..	..	..	1	1	1	..	..	..	..	..
Totals	18	11	11	8	7	8	6	13	9	5	8	10	..	114	195	118	95	109	98	Bronchitis	62	6	2	5	3	2	4	..	..	..	1	6	7	3	4	4	5	..
Males	10	8	7	3	3	4	1	9	5	3	4	7	..	64	98	69	56	63	54	"	34	2	1	3	2	1	2	..	..	..	1	4	4	2	3	2	3	..
Females	8	3	4	5	4	4	5	4	4	2	4	3	..	50	97	49	39	46	44	"	28	4	1	2	1	1	2	..	..	..	..	2	3	1	1	2	2	..
Totals	4	2	4	..	3	4	5	1	2	13	8	20	1	67	35	27	36	35	48	Burns	18	10	5	9	2	4	2	5	..	2	1	1	1	2	1	1	..	3
Males	2	1	2	..	..	3	3	1	2	5	2	7	1	29	16	15	21	14	23	"	9	3	..	3	2	1	1	2	..	1	1	1	1	1	1	..	..	2
Females	2	1	2	..	3	1	2	..	..	8	6	13	..	38	19	12	15	21	25	"	9	7	5	6	..	3	1	3	..	1	..	..	..	1	..	1	..	1
Totals	33	38	36	43	28	45	42	55	49	41	43	38	1	492	480	453	391	403	361	Cancer	12	1	1	6	4	18	18	22	42	50	49	56	47	56	57	30	20	3
Males	12	17	14	18	9	16	19	30	16	16	21	14	..	202	193	185	171	183	173	"	4	1	1	4	1	9	4	3	9	14	14	25	22	30	37	16	7	1
Females	21	21	22	25	19	29	23	25	33	25	22	24	1	290	287	268	220	220	188	"	8	..	..	2	3	9	14	19	33	36	35	31	25	26	20	14	13	2
Totals	..	1	4	2	2	1	2	2	7	2	..	2	..	25	21	28	25	15	37	Canker (Noma)	24	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Males	..	..	1	1	1	..	..	1	3	1	..	..	..	8	9	8	9	7	20	" "	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	1	3	1	1	1	2	1	4	1	..	2	..	17	12	20	16	8	17	" "	16	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	Capsule renal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	1	..	1	..	..	..	..	..	2	..	..	..	..	..	" "	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	1	..	1	1	2	3	3	3	Carbuncle	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1889.													Years.						Causes of death.	Ages in periods of years,—1889.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1889.	1888.	1887.	1886.	1885.	1884.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females										1				1		1	1	2		Carbuncle	1																	
Totals	16	24	29	23	35	26	38	48	46	45	34	50	2	416	364	385	350	297	305	Casualty	28	20	20	38	51	48	31	32	21	22	15	15	7	14	14	7	6	27
Males	15	22	27	22	30	24	32	38	38	45	31	46	2	372	324	331	305	255	261	"	16	17	19	36	47	47	30	29	19	22	12	14	7	13	11	3	4	26
Females	1	2	2	1	5	2	6	10	8		3	4		44	40	54	45	42	44	"	12	3	1	2	4	1	1	3	2		3	1		1	3	4	2	1
Totals	2	3	3	5	3	1	3	3	3	2	1	1		30	25	20	16	16	11	Catarrh	9				1		2	1		1	2	1	4	5	2	1	1	
Males	2	3	1	4	2	1	2	2	2	1	1	1		22	17	11	13	6	6	"	6				1		2	1		1	2		3	3	2		1	
Females			2	1	1		1	1	1	1				8	8	9	3	10	5	"	3											1	1	2		1		
Females															1				2	Cellulitis																		
Males		1								1				2	2		1			Chest disease			1													1		
Females												1		1			1		1	" "	1																	
Males															2	1	1	3		Chicken-pox																		
Females			1				1							2			1	1		"	2																	
Females	12	17	26	29	22	16	22	26	12	20	18	22		242	243	223	213	217	222	Child birth				22	44	45	50	46	23	7	1							4
Totals	6	2	2	2	2	4	2	3	5	1	5	2		36	31	44	21	38	44	Chills, congestive	5	1	2	1	2	1	2	3	2	1		1		5	6	2	2	
Males	4			2	2	4				1	2			15	11	27	10	17	24	" "	3		2				2	1	1	1				3		1	1	
Females	2	2	2				2	3	5		3	2		21	20	17	11	21	20	" "	2	1		1	2	1		2	1			1		2	6	1	1	
Totals				1	1									2	5	4	1	2	2	Choking	1			1															
Males					1									1	1	1	1	1		"				1															
Females				1										1	4	3		1	2	"	1																		
Totals	6	7	9	14	14	28	117	262	179	57	16	7	6	722	767	626	653	360	781	Cholera infantum	707	7	1															7
Males	3	4	6	9	10	16	64	135	92	31	11	6	3	390	410	364	348	199	435	" "	382	4	1															3

Females	3	3	3	5	4	12	52	127	87	26	5	1	3	331	357	262	305	161	344	" "	324	3														4
Unknown							1							1					2	" "	1															
Totals	2			1	3	2	14	15	13	3				53	52	57	42	42	50	Cholera morbus	21	2	6	1	4	1		1	1	2		2	1	5	2	3	1	
Males	2				3	1	6	11	8	2				33	26	30	20	24	26	" "	12	1	5	1	2				1	1		1	1	3	2	3		
Females				1		1	8	4	5	1				20	26	27	22	18	24	" "	9	1	1		2	1		1		1		1		2			1	
Males												1		1	1	1		1	2	Chorea												1						
Females					1				1					2	1	1	2	5	2	"	1												1					
Males																			1	Cirrhosis																	
Males																	1	1		Clos'g pyloric orifice																	
Females																	1			" " "																	
Totals	7	3	5	3	3		1	1	1		5	11		40	38	29	33	46	13	Cold	34	3						1	1			1					
Males	3	1	3	2	2		1				4	5		21	17	14	17	29	4	"	17	2						1				1					
Females	4	2	2	1	1			1	1		1	6		19	21	15	16	17	9	"	17	1							1								
Males				2							1			3	1	2	1	2		Colic, bilious					1									1		1	
Females												1		1				2		" "													1					
Totals	1	1	3	4	1	3		3	4	2	3	2		27	37	28	9	17	19	Colic	24	1						1	1								
Males		1	2	3		1		1	3	1	1	1		14	24	15	6	12	11	"	12	1							1								
Females	1			1	1	2		2	1	1	2	1		12	13	13	3	5	8	"	11							1									
Unknown			1											1						"	1																
Males															3	2	1		1	Constipation																	
Females															2	2			1	"																	
Totals	171	134	189	199	192	157	143	209	204	172	162	198	7	2137	2424	2127	2054	1964	2198	Consumption	127	18	56	200	279	289	235	177	135	105	106	181	100	85	58	47	15	24
Males	68	71	90	95	89	70	68	98	82	83	71	98	4	987	1103	985	950	935	1025	"	62	9	16	56	115	135	91	83	76	56	73	42	43	45	34	32	7	12
Females	103	63	99	104	103	87	75	111	122	89	91	100	3	1150	1321	1141	1101	1028	1173	"	65	9	40	144	164	154	144	94	59	49	33	39	57	40	24	15	8	12
Unknown																1		1		"																		
Totals	37	33	36	40	29	33	26	41	49	47	41	41		453	516	474	431	432	436	Convulsions	408	6	4	2	7	4	6	5		1	2	1	1	2				3
Males	22	17	17	26	15	18	17	26	27	27	24	20		256	295	267	229	266	228	"	235	4			2	3	2	3			2		1	2				2
Females	15	16	19	14	14	14	9	15	22	20	17	21		196	221	207	200	186	206	"	173	2	4	2	5	1	4	2		1		1						1

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1889.													Years.						Causes of death.	Ages in periods of years,—1889.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1889.	1888.	1887.	1886.	1885.	1884.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Unknown	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	2	...	2	Convulsions	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Males	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	Cough	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Females	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	2	"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	8	2	4	4	1	2	1	2	2	3	11	6	...	46	90	117	104	46	40	Croup, membranous	32	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Males	2	...	2	3	...	1	1	...	1	1	4	4	...	19	46	68	57	28	24	" "	11	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Females	6	2	2	1	1	1	...	2	1	2	7	2	...	27	44	49	47	18	16	" "	21	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	22	31	33	24	16	17	19	18	27	39	42	69	...	357	384	282	296	291	285	Croup	299	51	4	...	...	...	1	...	...	...	1	...	...	...	...	...	1
Males	13	15	14	11	7	6	9	9	12	20	23	34	...	173	214	159	155	157	142	"	150	19	2	...	...	...	...	...	...	...	1	...	...	...	...	...	1
Females	9	16	19	13	9	11	10	9	15	19	19	35	...	184	170	123	141	134	143	"	149	32	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Males	...	...	...	...	...	1	...	...	...	...	...	...	...	1	2	...	1	2	...	Cyanosis	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Females	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	1	...	...	"	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	1	1	...	...	...	...	...	...	...	...	...	...	...	2	2	5	30	13	...	Debility, nervous	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...
Males	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1	4	9	5	...	" "	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Females	...	1	...	...	...	...	...	...	...	...	...	...	...	1	1	1	21	8	...	" "	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Totals	18	19	28	24	23	24	32	37	33	39	27	28	2	334	318	289	218	282	287	Debility	170	1	1	3	2	3	...	2	9	3	9	3	21	29	29	29	19	1
Males	8	14	14	15	9	14	22	17	20	20	13	14	1	181	169	125	125	158	130	"	86	...	...	2	...	2	...	1	6	2	5	2	11	22	15	17	10	...
Females	10	5	14	9	14	10	10	20	13	19	14	14	1	153	149	114	93	121	157	"	84	1	1	1	2	1	...	1	3	1	4	1	10	7	14	12	9	1
Unknown	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	1	...	...	...	...	1	...	2	...	1	...	3	...	8	6	7	3	4	3	Delirium tremens	...	...	...	...	...	2	2	...	1	2	1	...	...	...	...	...	...	...
Males	...	...	...	...	...	1	...	2	...	1	...	3	...	7	5	7	3	1	3	" "	...	...	...	...	...	2	2	...	1	2	...	...	...	...	...	...	...	...
Females	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	3	...	" "	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...

Totals	6	6	6	7	4	7	6	2	2	10	9	9	..	74	71	61	68	65	49	Diabetes	1	4	6	3	9	5	4	2	3	6	5	7	5	5	4	3	1	1
Males	4	4	4	4	4	7	5	1	2	5	8	6	..	54	51	38	46	37	33	"	...	3	5	3	6	5	4	...	1	5	2	6	3	4	2	3	1	1
Females	2	2	2	3	...	...	1	1	...	5	1	3	..	20	20	23	22	28	16	"	1	1	1	...	3	...	.	2	2	1	3	1	2	1	2	...	...	..
Totals	1	1	4	2	2	2	1	6	2	4	2	4	..	31	16	15	15	22	23	Diarrhea, chronic	2	...	1	...	1	1	1	1	2	3	5	...	4	5	4	1	...	..
Males	1	1	3	2	...	2	1	4	2	3	1	3	..	23	15	12	11	15	20	" "	1	...	...	...	...	...	1	...	2	1	5	...	4	5	3	1	...	..
Females	...	...	1	...	2	...	...	2	...	1	1	1	..	8	1	3	4	7	3	" "	1	...	1	...	1	1	..	1	...	2	...	...	...	...	1	...	...	..
Totals	1	1	4	7	9	27	107	134	92	23	10	4	..	419	355	399	363	239	386	Diarrhea	393	3	2	1	1	...	1	1	...	2	2	1	...	1	4	2	4	1
Males	1	...	1	3	7	14	51	65	50	11	6	2	..	211	191	204	186	151	221	"	197	2	1	1	...	...	...	...	...	1	1	...	...	1	2	2	2	1
Females	...	1	3	4	2	13	55	69	42	12	4	2	..	207	164	195	177	88	164	"	195	1	1	...	1	...	1	1	...	1	1	1	...	...	2	...	2	..
Unknown	...	...	...	...	...	...	1	...	...	...	...	...	..	1	...	...	...	...	1	"	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Totals	67	49	62	41	40	44	43	49	69	108	130	146	..	848	717	935	1117	1054	1065	Diphtheria	400	299	82	35	11	7	2	2	1	3	1	...	...	1	...	...	...	4
Males	32	17	37	23	22	25	27	26	27	60	66	68	..	430	370	474	553	503	501	"	199	156	41	19	6	2	1	...	...	2	1	...	...	1	...	...	...	2
Females	35	32	25	18	18	19	16	23	42	48	64	78	..	418	347	461	564	551	563	"	201	143	41	16	5	5	1	2	1	1	...	...	...	...	...	...	...	2
Unknown	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	1	"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	1	...	Drinking, cold water	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	4	2	1	3	Dropsy of bowels	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	3	3	3	...	...	" "	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Totals	2	5	...	1	5	4	3	4	2	3	3	4	..	36	39	57	34	27	41	Dropsy of brain	30	2	2	1	...	...	...	...	...	...	...	...	...	2	...	...	...	..
Males	2	3	...	1	3	3	3	3	1	2	3	2	..	26	25	32	14	12	19	" "	21	2	2	1	...	...	...	...	...	...	...	...	...	1	...	...	...	..
Females	...	2	...	...	2	1	...	1	1	1	...	2	..	10	14	25	20	15	22	" "	9	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	..
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	2	3	1	1	1	Dropsy of chest	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	1	...	1	...	" "	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Totals	3	3	6	3	3	6	3	11	3	6	9	5	..	61	86	107	64	69	70	Dropsy of heart	1	1	2	2	...	1	1	6	3	3	5	6	3	4	12	5	5	1
Males	2	1	1	1	1	2	1	5	1	2	3	3	..	23	37	54	29	38	30	" "	...	...	...	1	...	...	1	2	1	...	1	2	1	2	7	3	2	..
Females	1	2	5	2	2	4	2	6	2	4	6	2	..	38	49	53	35	31	40	" "	1	1	2	1	...	1	.	4	2	3	4	4	2	2	5	2	3	1
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	1	...	...	1	Dropsy of kidneys	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	2	...	2	...	1	Dropsy of liver	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	1	...	...	" "	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1889.													Years.						Causes of death.	Ages in periods of years,—1889.																				
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1889.	1888.	1887.	1886.	1885.	1884.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Totals	30	22	33	25	19	34	24	29	21	31	33	34	2	337	462	338	333	330	324	Dropsy (unspecified)	16	3	3	5	4	12	9	17	8	21	23	18	46	54	40	37	17	4
Males	22	9	13	12	11	16	11	12	11	16	22	17	..	172	222	170	138	147	142	" "	10	3	2	2	1	7	...	4	2	10	11	10	24	31	20	23	8	4
Females	8	13	20	13	8	18	13	17	10	15	11	17	2	165	240	168	195	183	182	" "	6	...	1	3	3	5	9	13	6	11	12	8	22	23	20	14	9	..
Totals	8	1	7	6	9	16	34	14	12	3	10	8	2	130	161	163	144	132	150	Drowning	19	14	23	22	13	11	5	6	1	3	2	1	2	1	3	...	...	4
Males	8	1	7	5	8	13	33	12	12	3	9	7	2	120	147	145	129	125	128	"	15	13	22	21	13	9	5	6	1	3	2	1	2	1	3	...	...	3
Females	...	...	...	1	1	3	1	2	...	...	1	1	..	10	14	18	15	7	22	"	4	1	1	1	...	2	...	...	...	...	...	...	...	...	...	...	...	1
Males	...	...	...	...	...	...	...	2	...	...	...	...	..	2	3	...	3	1	...	Dysentery, chronic	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Females	...	...	...	...	...	...	...	2	...	...	...	...	..	2	...	...	1	...	...	" "	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Totals	...	1	5	5	3	3	6	51	47	24	6	3	..	154	150	183	154	104	160	Dysentery	79	8	4	1	3	3	1	2	4	...	4	3	10	8	8	5	6	5
Males	...	1	1	2	2	2	4	27	28	13	3	2	..	85	65	9[illegible]	80	51	82	"	45	2	3	1	1	1	...	2	3	...	1	1	5	6	2	3	6	3
Females	...	...	4	3	1	1	2	24	19	11	3	1	..	69	85	85	74	52	78	"	34	6	1	...	2	2	1	...	1	...	3	2	5	2	6	2	...	2
Unknown	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	1	...	"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	1	4	1	2	1	...	...	4	1	1	3	3	..	22	24	28	13	18	19	Dyspepsia	...	...	...	...	...	3	2	...	...	2	2	1	3	...	4	4	...	1
Males	...	1	...	2	1	...	...	3	...	...	2	2	..	11	16	22	8	11	12	"	...	...	...	...	...	1	1	...	...	1	2	...	...	...	3	3	...	...
Females	1	3	1	1	...	...	...	1	1	1	1	1	..	11	8	6	5	7	7	"	...	...	...	...	...	2	1	...	...	1	...	1	3	...	1	1	...	1
Totals	...	...	...	1	...	...	...	...	...	...	1	...	..	2	6	2	2	4	...	Embolism	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...
Males	...	...	...	...	...	...	...	...	...	...	1	...	..	1	2	2	...	2	...	"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Females	...	...	...	1	...	...	...	...	...	...	...	...	..	1	4	...	2	2	...	"	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Totals	...	3	5	1	5	3	5	5	2	3	3	4	1	40	65	54	49	50	43	Epilepsy	5	2	1	3	3	3	7	5	2	3	1	2	...	1	...	...	...	2
Males	...	2	...	...	2	2	3	1	1	3	1	1	1	17	37	32	30	33	32	"	2	1	...	1	3	...	...	2	1	2	1	2	...	1	...	...	...	1
Females	...	1	5	1	3	1	2	4	1	...	2	3	..	23	28	22	19	17	11	"	3	1	1	2	...	3	7	3	1	1	...	...	...	...	...	...	...	1

Totals	5	6	5	7	4	4	1	2	3	6	5	4	..	52	82	70	63	68	71	Erysipelas	11	3	1	2	6	2	5	4	..	4	..	..	4	4	3	2	..	1
Males	..	4	3	5	2	1	..	2	..	4	2	2	..	25	46	37	38	35	49	"	3	2	..	2	3	2	3	1	..	2	..	..	2	2	1	1	..	1
Females	5	2	2	2	2	3	1	..	3	2	3	2	..	27	36	33	25	33	22	"	8	1	1	..	3	..	2	3	..	2	..	..	2	2	2	1	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	Exhaustion	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	1	..	..	1	..	..	2	..	..	..	1	..	5	4	3	2	1	4	Exposure	..	..	..	..	..	..	..	..	1	..	1	..	1	1	1	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	..	1	5	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	1	1	4	3	1	..	..	1	2	3	2	1	..	19	28	24	17	25	19	Falling tree	1	..	2	3	2	4	1	1	1	..	1	..	1	1	1	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	2	" "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals	..	..	1	..	4	1	2	..	6	2	..	1	..	17	30	21	22	24	38	Fever, bilious	1	2	..	2	3	1	..	1	3	2	..	..	..	1	..	1	..	..	..
Males	..	..	..	..	2	..	1	..	3	..	..	1	..	7	15	9	13	14	20	" "	1	..	..	2	..	..	..	..	2	1	..	..	..	..	..	1	..	..	..
Females	..	..	1	..	2	1	1	..	3	2	..	..	..	10	15	12	9	10	18	" "	..	2	..	..	3	1	..	1	1	1	..	..	..	1	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	6	3	1	3	Fever, catarrhal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	1	..	..	..	1	..	..	..	..	..	..	2	2	2	3	4	2	" "	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	Fever, congestive	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	1	..	..	1	..	2	..	1	1	..	..	" "	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Totals	2	1	..	1	1	..	..	1	2	1	1	..	..	10	13	8	6	6	6	Fever, gastric	1	..	1	..	..	..	2	1	..	..	..	..	1	..	2	..	2	..
Males	1	..	..	..	..	..	..	1	1	..	..	..	..	3	2	2	4	1	1	" "	1	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..
Females	1	1	..	1	1	..	..	..	1	1	1	..	..	7	11	6	2	5	5	" "	..	..	1	..	..	..	2	..	..	..	..	..	1	..	1	..	2	..
Totals	2	1	2	1	3	1	2	4	3	3	2	1	..	25	22	15	25	18	21	Fever, intermittent	13	4	1	1	..	1	2	..	1	1	..	..	..	..	1	..	1	..
Males	1	..	..	1	1	1	1	..	1	1	..	1	..	8	7	7	10	5	10	" "	6	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..
Females	1	1	2	..	2	..	1	4	2	2	2	..	..	17	15	8	15	13	11	" "	7	4	1	..	..	1	1	..	1	1	..	..	..	..	..	..	1	..
Totals	2	2	11	5	9	5	9	10	23	28	17	12	..	133	144	109	120	84	115	Fever, malarial	23	10	8	11	13	15	8	6	6	4	3	7	2	5	4	..	3	5
Males	1	2	5	3	4	3	3	7	9	14	7	8	..	66	66	55	64	42	53	" "	10	5	3	3	8	6	4	2	4	1	3	5	1	3	3	..	2	3
Females	1	..	6	2	5	2	6	3	14	14	10	4	..	67	78	54	56	41	62	" "	13	5	5	8	5	9	4	4	2	3	..	2	1	2	1	..	1	2
Unknown	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	" "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	1	..	..	..	..	..	1	1	4	5	1	1	Fever, milk	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	1	..	..	..	..	..	..	..	..	1	1	1	1	1	1	Fever, nervous	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1889.													Years.						Causes of death.	Ages in periods of years,—1889.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1889.	1888.	1887.	1886.	1885.	1884.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70	70 to 75.	75 to 80.	80 and over.	Unknown.
Females															3		2	1	2	Fever, nervous																			
Males											1			1	3	2	1	2	4	Fever, remittent							1											
Females										1	1			2		1	1		2	" "	1												1					
Males				1				1						2	8	4	4	6	4	Fever, rheumatic												1	1					
Females					2		1	1			1			5	4	7	3	2	5	" "		1					1		1					1	1			
Totals	3	5	7	7	5	6	6	7	11	6	6	5		74	74	79	77	74	107	Fever, spinal	54	10	2	1	3		2	1	1									
Males			4	5	3	3	5	2	7	3	5	3		40	36	43	33	42	62	" "	26	9		1	1		1	1	1									
Females	3	5	3	2	2	3	1	5	4	3	1	2		34	38	36	44	32	45	" "	28	1	2		2		1											
Males																1	1	2	1	Fever, spotted																		
Females															1	1	2	1		" "																		
Totals	30	26	27	27	19	32	28	67	95	126	98	59	3	637	638	770	498	387	514	Fever, typhoid	63	48	54	73	112	63	48	27	30	28	21	11	13	12	9	10	1	14
Males	16	17	14	17	10	17	17	33	62	76	61	30	2	372	353	439	262	210	261	" "	33	26	24	36	69	44	29	20	15	17	14	7	7	7	7	5	1	11
Females	14	9	13	10	9	15	11	34	33	50	37	29	1	265	285	331	236	176	252	" "	30	22	30	37	43	19	19	7	15	11	7	4	6	5	2	5		3
Unknown																		1	1	" "																		
Totals	2	2	1			4	3	3	10	8	7	2	1	43	31	52	25	7	29	Fever, typho-mal'rl.	5	2	5	4	9	5	2	3	1	1	2			1	2			1
Males		2				2	2	2	6	5	5			24	16	25	15	5	17	" "	2		2	1	8	3	2	1			1			1	2			1
Females	2		1			2	1	1	4	3	2	2	1	19	15	27	10	2	12	" "	3	2	3	3	1	2		2	1	1	1							
Females											1			1						Fever, mountain					1													
Males						1				2				3	2	4	1			Fever, typhus		1	1	1														
Females									1					1	1	3	1	1	5	" "		1																
Totals	3	4	9	9	3	2	9	7	9	12	4	7		78	112	78	85	58	79	Fever (unspecified)	31	9	5	7	10	2	3	1	2	2		2	1		1	2		

Males	2	1	4	4	2	1	6	6	4	7	1	6		44	47	36	36	20	43	" "	16	7	4	3	6		1	1	1	1		2				2		
Females	1	3	5	5	1	1	3	1	5	5	3	1		34	95	42	49	38	36	" "	15	2	1	4	4	2	2		1	1			1		1			
Males					1			1						2		3	1	1		Fistula								1									1	
Females						1								1			2			"							1											
Males																			1	Fracture of arm																		
Females			1											1						" "				1														
Females	1			1							1			3	4					Fracture of hip																2	1	
Males											2	1		3	3	6	2	2	6	Fracture of leg							1			1		1					
Females	1				1		1					1		4	3	1	3		6	" "	1									1					1	1		
Males							1				1			2	4	5	1	3	2	Fracture of neck							1	1										
Females																1		1	1	" "																		
Males	1		2	1	2				2			1		9	6	14	12	5	6	Fracture of skull	1				4	1	1					1	1					
Females					1									1			1			" "	1																	
Males															2	4	2	1	1	Fracture of spine																		
Females					1									1						" "		1																
Males		1					1					1		3	3	1	1		2	Fracture of ribs							2						1					
Females																3	2	3		" "																		
Males		1	1	2								2		6	1	1	4	6	1	Freezing	1							1		1						1	1	1
Females			1											1	1		1			"										1								
Males																1		1		Fright																		
Females																	1	1	1	"																		
Males		1					1				1			3	1	2	5	3	1	Gall stone												2			1			
Females			1							1		1		3	4	5	2	6	4	"										1	1					1		
Totals		3		1	3	5	4	1	4			1		22	18	12	21	20	16	Gangrene	1								1		1	1		2	3	4	9	
Males		2		1	2	4	3	1	4					17	16	10	14	13	7	"	1											1		2	3	3	7	
Females		1			1	1	1					1		5	2	2	7	7	9	"									1		1					1	2	
Males			1											1		1	1	1	1	Glandular disease								1										

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1889.													Years.						Causes of death.	Ages in periods of years,—1889.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1889.	1888.	1887.	1886.	1885.	1884.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females															1	1		1	1	Glandular disease																		
Females		1												1	1	1				Goitre						1												
Females																1				Gonorrhœa																		
Males	1													1				1	1	Gout																	1	
Females																		1		"																		
Males		1	1		1	1								4	13	15	7	19	14	Gravel					1				1			1			1		
Females								1				2		3	1	1	4	2	1	"							1	1								1		
Males			1			2	1	2		2	2	4		14	16	11	17	13	10	Gun shot			1	1	1	1	1	2	1	1	2		1					2
Females					1									1			1	2		"															1				
Males	1						2	1	2					6		4	1		1	Head disease	2				1					1				1		1		
Females											1			1	3	3	4		2	" "	1																		
Totals	64	85	94	91	85	69	75	72	77	93	75	96		976	864	750	669	668	658	Heart disease	60	18	18	18	25	34	27	32	50	59	57	83	103	125	123	78	48	18
Males	31	42	53	49	45	44	44	25	40	60	44	56		533	488	421	375	389	359	" "	34	6	3	6	10	21	13	14	27	28	36	44	59	67	69	48	33	13
Females	33	43	41	42	40	25	31	47	37	33	31	40		443	375	329	294	279	298	" "	26	12	15	12	15	13	14	18	23	31	21	39	44	56	54	30	15	5
Unknown															1				1	" "																		
Totals		1	1	1	2		1	1	2					9	11	9	7	5	4	Heart, enlargement of	2		1	1						1				2	1	1		
Males			1	1	2		1	1						6	6	3	6	4	3	" "	2									1				2	1			
Females		1							2					3	5	6	1	1	1	" "			1	1												1		
Males			1			1			1	1				4	2	5	1	1	1	Heart, fatty degen. of											2				1	1		
Females				2		1								3	3	1	2	2		" " "										1		1						1
Males															5		2	1		Heart, inflam. of																		

Females			1	1				1			1				4	5	2	1			" "	2		1						1										
Totals	1	3	2	2	3	1	2	3	4	5	5	3		34	34	34	17	27	27	Heart, neuralgia of		1						3	2	1	1	6	5	5	5	2	3	
Males		2	2	2	3	1	2	3	3	1	1	2		22	18	16	7	12	14	" "								1			1	6	3	4	4	1	2	
Females	1	1							1	4	4	1		12	16	18	10	15	13	" "		1						2	2	1			2	1	1	1	1	
Males																		1	1	Heart, ossification of																		
Females																	1			" "																		
Males															2					Heart, palpitation of																		
Females															2					" "																		
Males	2	1	2		4	1		3	1	1	1	3		19	15	19	12	10	14	Heart, paralysis of					1			1	3	1	1	3	1	1	4	1	1	1
Females	2		4					2		2		2		12	20	14	13	15	13	" "	1			1		1	1				1		1	2	1		3	
Males			1					1			1			3		3				Heart, rupture of						1			1			1						
Females												1		1						" "												1						
Males			1	1	1									3	3	5				Heart, valvular dis. of			1								1						1	
Females			1											1		5	3		1	" " "												1						
Males										1				1		2				Hemorrhage of bladder														1				
Females																			1	" "																		
Males								1	1		1			3	5	5	4		9	Hemorrhage of bowels					1				1						1		
Females			1				1			1				3	1	2	4	5	6	" "			1	1	1												
Totals	2	1		1	2	1	1	1	2		1			12	3	6	3	5	2	Hemorrhage of brain		1			1	2			1	1	2	1			2	1		
Males	2				1		1	1	1		1			7	2	3	1	3	2	" "						1			1	1	2				2			
Females		1		1	1	1			1					5	1	3	2	2		" "		1			1	1						1					1		
Totals	4		4	3	2	2	5	4	2	1	2	7		36	27	40	30	31	22	Hemorrhage of lungs	5	1		2	4	4	2		4	2	3	2		2	3	2		
Males	2		3	2	2	1	4	3	2	1	2	5		27	17	25	25	24	16	" "	4				2	3	2		4	1	3	2		2	3	1		
Females	2		1	1		1	1	1				2		9	10	15	5	7	6	" "	1	1		2	2	1				1						1		
Females			1											1	1			1	1	Hemorrhage of nose	1																	
Males		2						1						3	3	3	2		5	Hemorrhage of stomach			1								1				1			
Females					3	1	1	1				1		7	1	2		1		" "	3				1					1			1		1			
Males						1								1					1	Hemorrhage, umbilical	1																	

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1889.													Years.						Causes of death.	Ages in periods of years,—1889.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1889.	1888.	1887.	1886.	1885.	1884.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females																	2		1	Hemorrh'ge umbilical																		
Females															1	1	2	4	1	Hemorrh'ge, uterine																		
Totals	1	3	4	3	1	2	1		1	2		3		21	30	16	18	12	15	Hemorrhage	8	1	2	1	1			1	1		2	1	2			1		
Males	1	3	2	1		1	1			1		1		11	21	10	8	3	7	"	4		1	1					1		1		2			1		
Females			2	2	1	1			1	1		2		10	9	6	10	9	8	"	4	1	1		1			1			1	1						
Totals	1	3	2	2	1	1	4	9	5	8	2	6		44	37	26	32	25	23	Hernia	3			2			1	3		3	5	3	6	5	3	6	3	1
Males	1	3	2	2	1	1	1	7	4	5	2	4		33	23	14	20	12	16	"	3			2			1	3		2	3	3	4	3	1	4	3	1
Females							3	2	1	3		2		11	14	12	12	13	7	"										1	2		2	2	2	2		
Males																1	1		1	Hiccoughs																		
Females																	1			"																		
Males					1					1				2	4	4	2	4	4	Hip disease			1	1														
Females		1		1	3									5	3	2	4	5	2	" "			3	1	1													
Males					1	1	1							3	1	1		1		Hydrocephalus	3																	
Females																		1	3	"																		
Males																2		1	1	Hydrophobia																		
Females															1					"																		
Males		1		1	1									3	11	7	8	5	9	Inanition	3																	
Females		1	1	2			1		1					6	8	2	11	8	19	"	6																	
Unknown																	1			"																		
Males	2			2						2		2		8	8	20	7	9	4	Indigestion	5								1				1		1			
Females					1		1	3			1			6	8	9	6	5	7	"	4			1													1		

Males																			1	Infanticide																				
Unknown																		1		"																				
Totals	46	42	59	54	49	49	50	56	67	38	48	61	2	621	643	658	595	548	490	Infantile	621																			
Males	31	27	31	29	26	29	34	36	32	16	26	37	1	355	396	407	378	316	290	"	355																			
Females	15	14	27	25	23	19	16	20	35	22	22	24	1	263	246	250	211	228	189	"	263																			
Unknown		1	1			1								3	1	1	6	4	11	"	3																			
Totals	5	7	3	5	3	3	3	1	7	3	2	5		47	40	43	39	44	44	Inflammation	24	2	2	2	1	3	2	1	2	2	1	2		1	1		1	
Males	4	3	3	1	1	2		1	2	2	1	3		23	19	18	18	26	25	"	12	1	1	1	1	1			1	2				1	1		1	
Females	1	4		4	2	1	3		5	1	1	2		24	21	25	21	18	19	"	12	1	1	1		2	2	1	1		1	2							
Males	6	3	2			1					3	2		17	1	1	1	1		Influenza	7	1		1	1		1	1		1	1		2				1		
Females	3	3		2	1	1		1				1		12	1	1	2	1		"	4	3			1	1					2							1		
Males	1		2		2			2	1	2		3		13	12	10	14	13	7	Insanity					1		2	1	1	2	1	1	1	1	1		1	
Females	1	1			2	1		2	1	3	2			13	14	23	11	12	10	"					1			1	2	1	1	1	3	1		1		1
Females																	1			Insomnia																			
Males		1	2				1			1	1			6	13	7	16	10	8	Intemperance							1	1	3					1				
Females									1	3				4		1	4	2	1	"							2	1		1									
Males		2	1	1	1	2	1	2	2	3	1	1		17	9	11	12	18	10	Jaundice	2		1		2						1		4	3	3		1	
Females	2	1		2	1	1	1	1	1	1	1	2		14	12	12	3	17	13	"	2	1				1	3		1		1	1	1	1		1	1	
Males																	1			Joint disease																			
Females															1				1	" "																			
Totals	12	12	18	20	17	21	20	24	18	27	20	20		229	210	205	214	198	179	Kidneys, Bright's disease of	1	1	1	5	8	11	15	8	11	14	14	27	29	30	24	19	9	2
Males	9	9	10	14	16	11	16	19	16	18	13	12		163	159	155	155	151	147		1			1	7	6	9	7	4	7	9	16	21	26	21	17	9	2
Females	3	3	8	6	1	10	4	5	2	9	7	8		66	51		59	47	32			1	1	4	1	5	6	1	7	7	5	11	8	4	3	2		
Totals	3	7	7	9	14	5	10	10	9	15	8	2		99	103	97	76	81	72	Kidney disease	5	1	2	3	1	1	3	6	3	6	8	7	6	17	15	9	6	
Males	1	6	3	8	12	5	10	6	8	12	5	2		78	84	77	57	56	57	" "	4	1		2		1	3	5	2	4	7	5	4	13	14	8	5	
Females	2	1	4	1	2			4	1	3	3			21	19	20	19	25	15	" "	1		2	1	1			1	1	2	1	2	2	4	1	1	1	
Males	2		2			1	1			3	1			10	24	14	20	12	5	Kidneys, inflam. of	1					1	2		1					2	3			
Females	2											1		3	7	7	10	5	7	" " "	1	1	1															

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1889.													Years.						Causes of death.	Ages in periods of years,—1889.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1889.	1888.	1887.	1886.	1885.	1884.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Totals	21	22	15	9	5	5	2	1	4	8	16	38	1	147	1	1			1	La Grippe	54	8	3	1	6	3	4	5	5	1	4	2	7	12	8	10	14	
Males	11	13	8	4	3	4	2		2	4	5	22	1	79						"	31	5	1		3	3	2		3	1	2	2	4	7	4	7	4	
Females	10	9	7	5	2	1		1	2	4	11	16		68						"	23	3	2	1	3		2	5	2		2		3	5	4	3	10	
Males															2		2	3		Laryngitis																		
Females										1				1	1		2		1	"									1									
Males							4							4	4	2	4	6	7	Lightning	1					1	1		1									
Females															2		2	1	3	"																		
Males										1				1	3	2	6	5	8	Liver, abscess of				1														
Females							1					1		2	3	3	5	2	2	" "			2															
Males	1				1		1					1		4	4	3	2	1	1	Liver, cirrhosis of										2		1	1					
Females									1					1	3	1		1		" "													1						
Totals	6	6	11	10	7	9	3	13	6	4	5	8		88	87	86	69	71	86	Liver, disease of	8			1	5	3	5	5	3	6	9	7	14	6	7	4	3	2
Males	4	4	7	5	5	6	2	10	3	4	2	5		57	50	48	40	39	49	" "	6				5	3	4	2	1	6	6	3	5	6	5	4	1	
Females	2	2	4	5	2	3	1	3	3		3	3		31	37	38	29	32	37	" "	2			1			1	3	2		3	4	9		2		2	2
Males	2	1		2			1	2	2		1			11	13	4	4	7	7	Liver, enlarge. of	3	1				1			2		1		2			1		
Females					2		1		1	1				5	12	7		9	11	" "								1		1		1		1		1		
Males				1	2				2					5	8	9	3	2	4	Liver, inflam. of					1							1	1	1		1		
Females						1								1	5	5	5	4	5	" "											1								
Males											1			1	4	1	1	1		Liver, ulcerat'n of												1						
Females			1					1						2	2	3			1	" "	1													1					
Males						1			1		1			3	4	4	7		4	Lungs, abscess of					1			1						1				

Females	1	1				1								3	5		7	1	1	Lungs, abscess of			1										1		1				
Totals	32	14	21	23	13	7	13	12	14	16	16	18	1	200	230	229	218	165	166	Lung disease	75	7	3	7	8	2	11	12	5	8	7	12	5	8	11	13	5	1
Males	20	8	10	11	8	6	5	9	8	8	8	11		112	135	145	127	88	88	" "	38	5	1	2	3	2	8	8	5	5	3	9	1	5	8	5	3	1
Females	12	6	11	12	5	1	8	3	6	8	8	7	1	88	95	84	91	77	78	" "	37	2	2	5	5		3	4		3	4	3	4	3	3	8	2	
Males																	1	1		Lung, paralysis of																		
Females																		1		" "																		
Females																1				Malaria																		
Males				1		1				1		1		4	6	4	6	5	3	Malformation	4																	
Females			1	1			3	1				2		8	5	7	2	2	4	"	8																	
Females											1			1						Malpractice									1									
Males		2	1			1		2	1					7	17	15	38	31	25	Marasmus	7																	
Females		1	1			2		1	2	2				9	13	6	19	29	19	"	8										1							
Totals	5	7	14	8	8	10	12	6	10	4	9	11		104	414	285	129	38	144	Measles	86	6	1	1	2	5				1			1				1	
Males	4	2	10	2	6	4	7	2	6	1	2	5		51	192	163	64	19	65	"	44	5	1			1												
Females	1	5	4	6	2	6	5	4	4	3	7	6		53	221	122	65	19	79	"	42	1		1	2	4				1			1				1	
Unknown															1					"																		
Males		1												1	5	3	3	2	6	Meningitis, cerebro spinal													1					
Females		1		1										2	8	2	4	4	7	"	2																	
Males		1							1					2						Meningitis, cerebral	2																	
Totals	3	6	6	8	2	10	7	4	6	6	3	1		62	63	77	70	60	104	Meningitis, spinal	44	5	4	2	2	1				1		1	1					1
Males	3	2	1	2	1	6	4	2	3	1		1		26	37	38	32	31	61	" "	19	1	1	2						1		1	1					
Females		4	5	6	1	4	3	2	3	5	3			36	26	39	38	29	40	" "	25	4	3		2	1												1
Males	1							1						2	3	1	3	1	2	Meningitis tubercular	1									1								
Females	1											1		2	4	3	3	3	3	"	1						1											
Unknown																		1		"																		
Males	1		2	2			2	1	2	1				11	29	9	15	17	11	Meningitis	8	2							1									
Females	1	1	1			1	1	2	3			1		11	13	11	13	14	5	"	8								2				1					
Females																1	1	1		Menses																		

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1889.													Years.						Causes of death.	Ages in periods of years,—1889.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1889.	1888.	1887.	1886.	1885.	1884.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females			1											1	1	1	1		2	Milk leg (phleg dolens)												1					
Females																1				Mortification																	
Males							1		1	1				3	2	2	4	3	3	Mouth disease	3																
Females		1						1	1					3	5	1	2	6	4	" "	3																
Males															3		1		2	Mumps																	
Females					1									1			2	2		"						1											
Totals	2	1	1	3	2	1	5	5	2	3		7		32	14	29	30	28	24	Murder	2				4	7	6	4	2	1	1	3	1				1
Males	1	1	1	3		1	5	5	2	3		2		24	13	22	27	25	17	"					2	5	5	4	2	1	1	3	1				
Females	1				2							5		8	1	7	3	3	7	"	2				2	2	1											1
Males				1										1		1		4	1	Necrosis													1				
Females																	1	1	2	"																	
Males																		1		Neglect																	
Females								1			1			2	1			1		"	1		1														
Males																	1	2	14	Nerve disease																	
Females															2	3	1	5	11	" "																	
Totals	1	1	1	2	1	1	6	3	2	7	2	4		31	32	20	2			Nervous prostration			1	4	1					3	3	1	3	7	3	2	2	1
Males			1	1			2		1	6		2		13	16	10	1			" "										1	3	1	1	3	2		1	1
Females	1	1		1	1	1	4	3	1	1	2	2		18	16	10	1			" "			1	4	1					2			2	4	1	2	1	
Males	1		1		1			2	1	1		1		8	8	2	6	3	7	Neuralgia				2			1		1			1					2	1
Females			1	2			1	2	1			1		8	6	10	8	4	7	"	3					1		1			2					1		
Totals	77	61	84	76	80	63	79	96	74	92	80	96	7	965	1174	917	865	773	795	Old age													14	23	136	201	580	11

Males	44	29	38	35	43	34	47	45	34	58	46	56	3	512	586	468	427	404	403	" "															8	12	66	94	325	7
Females	33	32	46	41	37	29	32	51	40	34	34	40	4	453	588	449	438	366	392	" "															6	11	70	107	255	4
Unknown																		3		" "																				
Males															1	1	1		1	Opium eating																				
Females																	1			" "																				
Females	1		1		1	3	1	1		2				10	8	7	2	12	12	Ovarian tumor						1	1	2		1	2		2		1			
Males											1			1	3	3	3	9	10	Overdose of medicine									1								
Females								1						1	1	1	4		1	" "													1					
Males			1											1	1		1	1		Overwork													1					
Females																1				"																				
Females																	1			Pancreas disease																			
Males	1						1	1			1	1		5						Paralysis, general									2	1	1								1
Females				2						1		1		4						" "								1	1						1	1			
Totals	37	34	31	48	47	41	51	50	41	42	64	45		533	552	450	485	400	397	Paralysis	13	5	3	3	7	3	11	6	9	27	37	36	57	86	78	80	65	7
Males	26	20	19	26	21	20	33	30	20	23	36	24		298	290	251	290	202	211	"	7	1	3	1	5	2	8	3	6	13	20	23	31	45	39	44	43	4
Females	11	14	14	22	26	21	18	20	21	19	28	21		235	262	199	195	196	186	"	6	4		2	2	1	3	3	3	14	17	13	26	41	39	36	22	3
Unknown																		2		"																				
Totals	7	2	7	4	4	8	3	2	2	3	6	2		50	46	35	32	22	27	Peritonitis	5	4	4	3		11	6	2	4	3	2	2	1	1	1			1
Males	2	1	1	3	1	1	1	2	1	2	4	1		20	21	13	13	10	10	"	4	1	2	1		3			1	2	2	2	1		1			
Females	5	1	6	1	3	7	2		1	1	2	1		30	25	22	19	12	17	"	1	3	2	2		8	6	2	3	1				1				1
Females															1					Pharyngitis																			
Females	1													1						Phlebitis										1								
Males				1										1	1		1		5	Piles									1									
Females												1		1			1		1	"																	1		
Males	2		2		1	1			2	1		3		12	23	16	11	11	10	Pleurisy					1	3					2	2	1	1	1		1	
Females	1	2		2	1			1			2	4		13	23	9	9	5	8	"					2	2	1	1			1	1	1	2		1		1
Males				1										1	5	1	3	−1	6	Pleuro-pneumonia	1																	

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1889.													Years.						Causes of death.	Ages in periods of years,—1889.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1889.	1888.	1887.	1886.	1885.	1884.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females	...	2	...	...	2	1	...	1	...	1	...	1	..	8	1	1	2	3	3	Pleuro-pneumonia	...	...	...	3	...	1	...	...	...	1	1	...	...	...	1	...	1	..
Totals	12	9	13	5	7	2	2	4	3	4	8	4	..	73	101	80	67	66	64	Pneumonia, typhoid	5	7	6	4	5	5	3	4	4	1	3	7	8	3	4	1	3	..
Males	10	7	8	3	7	1	1	2	3	1	3	3	..	49	59	54	39	35	41	" "	3	5	5	4	4	3	2	4	3	1	1	5	4	2	2	...	1	..
Females	2	2	5	2	...	1	1	2	...	3	5	1	..	24	42	26	28	31	23	" "	2	2	1	...	1	2	1	...	1	...	2	2	4	1	2	1	2	..
Totals	122	103	139	147	75	52	50	47	48	80	75	108	2	1048	1190	884	783	733	767	Pneumonia	370	41	22	39	32	39	48	44	37	43	38	41	51	56	64	40	33	10
Males	60	64	73	78	45	37	31	30	31	49	41	66	1	606	654	522	448	420	433	"	201	20	8	22	22	26	32	32	25	26	25	24	30	36	27	26	20	4
Females	62	39	66	69	30	15	19	17	17	31	34	42	1	442	336	362	335	312	333	"	169	21	14	17	10	13	16	12	12	17	13	17	21	20	37	14	13	6
Unknown	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Males	2	1	1	3	1	...	2	2	2	4	...	1	..	19	12	19	10	19	13	Poison	6	...	...	2	2	2	1	1	1	...	2	...	...	2	...	...	...	..
Females	...	...	2	1	...	1	1	1	...	1	1	1	..	9	9	12	8	7	3	"	2	2	...	...	2	...	...	...	1	1	...	...	...	1	...	...	...	..
Males	...	...	...	...	...	...	...	...	1	...	...	...	..	1	...	...	...	...	...	Polypus in ear	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	..
Males	1	...	...	...	...	...	...	...	...	...	...	...	..	1	1	1	1	...	2	Prostate disease of	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	..
Females	...	...	1	...	...	...	...	...	...	...	...	2	..	3	1	1	2	1	4	Puerperal convulsions	...	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...	..
Females	2	1	6	2	4	5	...	2	...	1	2	6	..	31	50	59	25	37	28	Puerperal fever	...	...	...	3	11	4	6	5	2	...	...	...	...	...	...	...	...	..
Males	1	...	1	2	...	2	...	...	1	1	...	...	..	8	6	6	10	7	5	Quinsy	3	2	...	...	...	...	1	...	...	1	...	...	1	...	...	...	...	..
Females	...	...	...	1	...	...	...	1	...	1	1	...	..	4	9	3	7	2	3	"	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Males	...	...	...	...	...	...	...	...	...	...	1	...	..	1	...	1	2	1	1	Rachitis	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Females	...	...	...	...	...	1	...	...	...	...	1	...	..	2	1	...	...	1	...	"	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Totals	7	6	6	6	11	13	3	10	7	16	12	12	1	110	113	90	72	76	73	Railroad accident	2	4	5	9	13	14	10	10	5	13	6	6	4	1	3	2	...	3
Males	7	6	6	6	7	12	3	10	7	14	12	10	1	101	106	82	67	68	67	" "	1	4	5	8	12	14	9	9	5	12	6	5	3	1	3	2	...	2
Females	...	...	...	...	4	1	...	...	...	2	...	2	..	9	7	8	5	8	6	" "	1	...	...	1	1	...	1	1	...	1	...	1	1	...	...	...	...	1

Males				1										1			1			Rheumatism of brain						1												
Totals	4	3	3	5	4	5		1	1	4	2	5	1	38	39	38	31	34	31	Rheumatism of heart	1	3	2	5		1	1	1	1	4		3	7	3	4	1		1
Males	1	3	2	4	2	3		1	1	4	2	3	1	27	24	26	19	22	22	" "		2	2	4			1	1	1	2		3	5	3	2	1		
Females	3		1	1	2	2						2		11	15	9	12	12	9	" "	1	1		1		1				2			2		2			1
Males			2	1	1	1	1		1	1		1		9	8	9	9	9	11	Rheumatism, inflam.				1	1	2	1			1	1		1					1
Females					3				1			1		5	7	12	13	5	7	" "	1	1					1				1				1			
Males		1									1			2	2	2	4	1	1	Rheumatism, sciatic											1				1			
Females									1					1	1	2	1	2	2	" "														1			
Totals	5	2	13	12	10	2	7	8	10	7	6	9	1	92	85	84	80	52	72	Rheumatism		2	6	6	1	5	3	5	2	4	5	10	10	13	7	8	5	
Males	4	2	9	10	6	1	5	4	5	4	3	7	1	61	53	56	49	29	38	"			5	5	1	4		2	1	2	5	8	4	10	2	8	4	
Females	1		4	2	4	1	2	4	5	3	3	2		31	32	28	31	23	34	"		2	1	1		1	3	3	1	2		2	6	3	5		1	
Males				1	2			1			2			6	10	7	8	6	6	Rupture of blood vessel	3				2								1					
Females	2			1	1					1	1			6	9	8	6	3	6	" " "	1							1	1	1	1						1	
Males																1				Scald head																		
Males	1	1		3				2	2	1	3	3		16	15	13	9	23	14	Scalding	13	1				1	1										
Females		3	1		1	1	1			1	2			10	5	9	13	9	7	"	9	1																
Totals	25	19	22	19	27	16	18	15	18	18	18	25		240	323	318	319	345	326	Scarlet fever	151	56	23	2	1	1	2		1			1			1			1
Males	11	11	12	6	10	9	4	9	4	11	9	14		110	170	152	161	136	148	" "	77	18	13		1		1										
Females	14	8	10	13	17	7	14	6	14	7	9	11		130	153	166	158	109	178	" "	74	38	10	2		1	1		1			1			1			1
Totals	1		4	1	2	1	2	3	1	3	4	3		25	21	25	24	23	40	Scrofula	12	1		1	3			1			1	1		2	1	1	1	
Males			3	1		1	2	1	1	1	2	1		13	14	15	13	10	25	"	7			1	2						1			1			1	
Females	1		1		2			2		2	2	2		12	7	10	11	13	15	"	5	1			1			1				1		1	1	1		
Totals	13	12	16	17	13	19	19	19	7	19	16	20		190	157	121	125	129	94	Septicæmia	24	10	7	11	19	14	19	10	14	7	11	12	6	8	7	4	3	4
Males	5	9	8	9	10	12	9	12	6	11	8	9		108	77	53	58	68	43	"	13	7	6	7	8	4	6	3	9	4	7	8	4	5	7	4	2	4
Females	8	3	8	8	3	7	10	7	1	8	8	11		82	80	68	67	61	51	"	11	3	1	4	11	10	13	7	5	3	4	4	2	3			1	
Males		1				1		1						3	7	1	5	4	4	Skin disease	1					1												1	
Females	3		1	1			1							6	2	3	3	4	5	" "	4				1													
Males	2													2	3		5		3	Small-pox							1									1		

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1889.													Years.						Causes of death.	Ages in periods of years,—1889.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1889.	1888.	1887.	1886.	1885.	1884.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females																	1	3		Small-pox																		
Males																		2		Snake bite																		
Females							1							1		1	1	2		" "	1																	
Males															1		1			Spina bifida																		
Females					1									1	2	1	3	2	1	" "	1																	
Totals	7	9	4	10	12	6	8	14	12	15	9	16		122	113	89	129	84	114	Spine disease	61	8	3	9	5	3	4	4	5	4	1	8	2	1	1	1	1	1
Males	2	6		4	7	3	2	6	3	7	5	7		52	59	51	62	42	56	" "	28	3		3	3		3	2	1	1		5	1		1			1
Females	5	3	4	6	5	3	6	8	9	8	4	9		70	54	38	64	42	58	" "	33	5	3	6	2	3	1	2	4	3	1	3	1	1		1	1	
Males											1			1				1		Spine, inflam. of									1									
Females				1										1		2	2			" "	1																	
Males						1								1		3		2		Spine, injury of		1																
Females							1							1						" "					1													
Males																2		3		Spine, paralysis of																		
Females															1	2				" "																		
Males		1		1						1				3	3	1	5	1	2	Spleen, disease of	1						2											
Females												3		3	1		3		2	" "		1						1				1						
Males																	1	1		Starvation																		
Females															1	1				"																		
Totals	82	70	109	102	77	95	94	102	107	117	114	129	4	1202	1358	897	909	1008	919	Stillborn	1202																	
Males	46	41	61	59	44	42	58	61	68	68	71	70	4	692	809	503	500	606	541	"	692																	
Females	34	28	46	42	32	50	32	41	35	47	40	56		483	534	359	366	372	324	"	483																	

Unknown	3	1	3	1	1	3	4	...	4	3	3	3	..	27	15	25	43	30	54	"	27	.	.	..	..																
Totals	4	...	5	3	2	1	2	4	3	6	3	5	..	38	44	33	30	29	26	Stomach disease	10	.	1	.	2	2		1		2	3	4	4	5	2	2						
Males	4	...	5	2	..	1	2	1	2	4	2	3	..	26	27	16	16	15	17	" "	5	.			1	1		1		2	3	1	3	4	1	1						
Females	...	...	...	1	2	...	...	3	1	2	1	2	..	12	17	16	15	14	9	" "	5		1		1	1							1	1	1	1					
Totals	1	2	3	4	3	3	3	5	4	2	5	4	..	39	43	25	37	44	39	Stomach, inflam. of	13	2			1	3		3	3	1	2	4	1	3				1	1		
Males	1	...	...	1	2	1	..	4	1	..	2	3		15	24	14	19	18	14	" "	6					2						1	2	2				1	1		
Females	...	2	2	3	1	2	3	1	3	2	3	1		24	18	11	18	26	25	" "	6	2			1	3		1	3	1	2	3	2	1							
Males	1	...	...	...	...	...	1	..	1	.	1			4	2	5	2		2	Stomach, neuralgia of						1					1		1	1						
Females	...	...	...	...	...	1	..	.	.					1	3	2	7	3	4	" "					1															
Males	...	...	1	...	...	...	...	...	..					1	3	1	1	2	1	Stomach, paralysis of														1					
Females	...	...	...	...	...	...	...	...	..	1				1	1	3				" "											1										
Males	...	...	...	...	...	...	..	1						1	...	2				Stomach, rupture of					1															
Females	...	...	...	...	...	...	.			.						1	1			" "		.																			
Males	...	...	2	...	...	..	1	3	1	1	1			9	14	11	8	6	5	Stomach, ulceration of					1		2	1						1	2				
Females	...	2	...	...	...	1	1	.	1	3				8	7	7	6	8	5	" "					1		2			1	2	1								
Males	...	...	...	...	...	...	.	..								1	1		1	Stone in bladder																				
Males	...	...	1	1	...	1	..		..	1	2	1		7	6	4	6	4	6	Strangulation	5	1	1																	
Females	...	...	...	1	1	1	..	.	.	2	1	1		7	7	4	4	8	5	"	6				1															
Males	...	...	...	...	...	...	.		.	1				1		2	4	1	5	Stricture of intestines									1										
Females	...	...	...	...	...	.	..		1					1		1				" "												1								
Males	...	...	...	...	...	...	...	...									1			Stricture of esophagus																				
Females	...	...	...	...	1	..	..							1						" "											1								
Males	...	...	...	...	...	...	...												2	Stricture of urethra																				
Males	...	...	...	...	...	...	...										1	2	2	Stricture																				
Males	2				1	..			1	3	2	1		10	14	6	9	6	17	Suffocation	1		1	1	1			1					1			1				
Females			2							1	3			5	5	7	6	7	2		1													1						
Total	2	1	1	2	1	4	2	3	4	4	5	3	1	48	103	106	82	91	104	Suicide		1	2	2	11	4	2	10	5	10	3	2	1	1	1	1	1	1	1	1
Race									4	4	5	3		74	93	75	84	74	84			1	2		9	4	2	10		2	3		1	1	1	1	1	1	1	

TABLE 78.--CONTINUED.—*Specified causes of death.*

Sex.	Months, 1889.												Years.						Causes of death.	Ages in periods of years,—1889.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1889.	1888.	1887.	1886.	1885.	1884.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females	2	1	1		2		1	1			3	4	1	16	19	30	18	12	20	Suicide				2	2		2			2	3	1			2	1		1
Unknown																		1		"																		
Males		1	1		1		6			1				10	11	19	5	9	6	Sunstroke				3	2				1	1			1			1		1
Females						1								1	2	5	1	1	1	"	1																	
Males	1		1			2	1							5	2	3	4	2	4	Surgical operation		1				1					1	1		1				
Females				1	1									2	2	2	4	2	2	" "					1	1												
Males																1				Syncope																		
Females															2					"																		
Males										2		1		3	8	1	6	8	7	Syphilis						1	1								1		
Females					1		1							2	6	3	3	8	7	"						1				1								
Males				1							1			2		1				Tape worm								1		1								
Females							1							1		1				" "								1										
Totals	5	5	4	1	9	4	16	8	14	6	3	7		82	89	81	75	49	57	Teething	82																	
Males	4	2	3		3	1	6	2	6	3	2	6		38	41	36	40	32	35	"	38																	
Females	1	3	1	1	6	3	10	6	8	3	1	1		44	48	45	35	17	22	"	44																	
Males						2		1	2					5	6	5	2	3	2	Tetanus (locked jaw)	2		1		1		1											
Females								1			1	1		3	1	2	1		1	" " "			1					1					1					
Males		1	3			1		1						6	14	16	10	11	9	Throat, disease of	3		1					1	1									
Females				1		1	1							3	9	9	12	7	10	" "	1											1				1		
Males												1		1	1	3	1			Throat, inflam. of	1																	

Females					1									1	1	1				" "	1																					
Males																1		1	1	Throat, paralysis of																						
Females																	1	1	1	" "																						
Males															3					Throat, putrid sore																						
Females						1								1	3					" "		1																				
Males									1					1	2	1	1	2	2	Thrush	1																					
Females							1		1		1	1		4	1	2	4		4	"	3				1																
Males																			1	Tongue, inflam. of																					
Males																		2	1	Trichinasis																					
Females			1											1						" "	1																				
Males						1		1						2	1		5	3	3	Tumor in bowels								1				1								
Females					1	1	1							3	4	4	1	8	4	" "									1	1	1									
Males	1							1						2	1	2	1			Tumor on brain			1							1										
Females		1												1	3	1	1	2		" "	1																			
Males												1		1	4		1	2		Tumor of liver																		1		
Females					1	1	1							3	1	1	1	1		" "							1									1	1		
Males																			1	Tumor in side																				
Females	1					1								2		1	1		2	" "								1	1											
Males	1	1				1				1	1			5	5	3	3	3	4	Tumor in stomach	1										1	2		1					
Females	1		3				1	1			1			7	6	9	5	2	2	" "					1			1		1			3	1					
Males															1	2		1	1	Tumor on throat																				
Females																	1			" "																				
Totals	8	4	6	8	2	6	5	4	3	7	6	5		64	72	62	60	67	54	Tumor (unspecified)	3	2			1	2	3	5	8	14	2	11	4	4	3	1	1		
Males	1	1	2	4		1	1	2	1	1	1	3		18	23	14	13	21	17	" "	2	1				1	1	3		2	1	2	2	2	1				
Females	7	3	4	4	2	5	4	2	2	6	5	2		46	49	48	47	46	37	" "	1	1			1	1	2	2	8	12	1	9	2	2	2	1	1		
Females			1		1	2	2				1	1		8	7	8	10	5	6	Turn of life									1	4	2								1

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1889.												Years.						Causes of death.	Ages in periods of years,—1889.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1889.	1888.	1887.	1886.	1885.	1884.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males																1				Ulcer on neck																	
Males			1	2	1		1		1		1	1		8	6	7	5	6	4	" (unspecified	1			1			2		1		1					1	1	
Females			1					1				1		3	2	6	5	1	3	" "						1			1						1			
Totals	77	74	93	84	98	94	130	154	127	105	83	101	13	1233	1224	1249	1040	949	1066	Unknown	682	40	16	24	43	28	25	27	29	26	38	32	41	58	31	21	7	65
Males	41	32	42	42	57	42	72	87	62	58	35	53	7	630	647	628	572	495	524	"	364	21	5	11	19	9	12	13	15	9	15	18	18	31	19	8	4	39
Females	36	42	51	42	41	52	58	67	65	47	48	48	6	603	577	616	461	452	537	"	318	19	11	13	24	19	13	14	14	17	23	14	23	27	12	13	3	26
Unknown																5	7	2	5	"																		
Males									1					1	3	2		4		Uræmia														1				
Females							1		1	1				3	1	1	1	2		"					1											1	1	
Males															3	1	1	1	2	Urin'ry organs, dis. of																		
Females																		1		" " "																		
Females							1			1				2	2	1	9	3	2	Uterine tumor				1									1					
Females																	1			Uterus, abscess of																		
Females				2	1	2		1		1	1			8	8	12	7	4	13	Uterus, disease of						4		2			1		1				
Females		1			1									2	8	7	5	4	5	Uterus, inflam. of						1		1										
Males					1									1						Vaccination	1																	
Males																	1	1	1	Vomiting																		
Females																3	1		1	"																		

Totals	7	10	16	12	12	9	14	22	18	9	5	6	..	140	174	110	185	138	160	Whooping-cough	131	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Males	5	4	6	5	5	2	6	12	10	3	3	4	..	65	69	51	82	57	75	" "	60	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Females	2	6	10	7	7	7	8	10	8	6	2	2	..	75	105	59	102	81	85	" "	71	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Unknown	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	1	...	...	" "	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Males	...	...	...	...	...	...	...	...	1	...	...	...	..	1	4	...	4	1	3	Worms	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Females	...	...	1	...	...	...	1	...	...	1	...	...	..	3	1	4	3	...	3	"	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Males	1	...	...	...	...	1	...	2	...	...	...	...	..	4	4	11	6	5	3	Wounds	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	1	1	..

UNUSUAL CAUSES OF DEATH.

In Table 78 there were compiled 416 deaths under the head of "Casualty." In Table 79 following may be found certain facts concerning these deaths. For 1888 there were compiled 364 accidental deaths.

TABLE 79.—*Deaths in Michigan in 1889 compiled as "Casualty."*

Casualty,—causes as returned.	No.	Casualty,—causes as returned.	No.
Total number tabulated as casualty in Table 78	416	Falling down shaft	1
		Falling from tramway	1
Accidental, unclassified	217	Falling building	2
Accidentally burned	1	Falling rails	1
Accidentally shot	28	Fell in a well	3
Bitten by a dog	1	Killed in a scuffle	1
Buried in a well	1	Killed by a wagon	1
Carriage collision	1	Killed in elevator	1
Caving of bank	2	Killed by land roller	1
Cut with glass	1	Killed in a log jam	1
Cut with an ax	1	Killed by explosion	2
Crushed by logs	10	Killed in woods	3
Crushed with rock	1	Killed in a boat	2
Explosion of boiler	2	Killed in a mill	12
Explosion of dynamite	3	Killed in ship yard	1
Explosion of gasoline	1	Killed in mine	29
Explosion of powder	2	Killed by a bull	2
Eating prune pits	1	Killed by a horse	22
Fall from building	7	Runaway	7
Fall from horse	1	Run over by a wagon	1
Fall from hammock	1	Smothered in wheat bin	1
Fall from scaffold	1	Swallowing stone	1
Fall of derrick	1	Thrown from carriage	8
Fall	29		

STATISTICS CONCERNING SUICIDE.

In Table 80 may be found statistics concerning the number of deaths by suicide for the last fifteen years, including 1889. The number this year being much less than for the two preceding years.

It will be noticed that only one person of African blood is numbered in the list, and that the farmers are much more inclined to self destruction than any other class of people. The nativity, means used, and certain comparisons relating to deaths by suicide can be seen by the different divisions of this table.

TABLE 80.—*Certain facts concerning persons returned as having died by suicide in Michigan during the years 1875–1889.*

Years.	Number.	Months of deaths.													Years.	Sex.			Color.	Condition.			
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.		Totals.	Males.	Females.	White.	Married.	Single.	Widowed.	Unknown.
Totals	1146	61	48	72	108	112	112	92	106	97	103	109	112	6	Totals	1146	883	262	1146	688	303	107	49
1875	52	3	4	3	4	8	4	4	4	5	3	6	4	..	1875	52	42	10	52	34	10	3	5
1876	54	3	1	3	7	7	8	2	4	5	6	5	3	..	1876	54	43	11	54	35	12	3	4
1877	66	2	5	7	4	7	5	6	7	4	2	7	10	..	1877	66	46	20	66	38	23	2	3
1878	63	5	2	5	5	5	9	5	7	5	6	5	4	..	1878	63	40	23	* 63	41	16	4	2
1879	59	3	2	4	7	3	8	5	7	5	4	4	7	..	1879	59	46	13	59	35	19	3	2
1880	65	4	3	6	8	9	6	3	4	7	2	6	6	1	1880	65	50	15	65	38	20	4	3
1881	57	1	5	3	3	4	4	7	9	7	4	6	4	..	1881	57	42	15	57	34	11	9	3
1882	62	2	3	4	6	8	7	2	7	5	7	4	6	1	1882	62	44	18	62	32	24	3	3
1883	91	5	1	7	9	5	8	11	9	4	6	16	10	..	1883	91	69	22	91	53	23	12	3
1884	104	4	5	7	8	6	16	8	8	14	10	10	8	..	1884	104	84	20	104	71	28	4	1
1885	91	4	4	3	7	7	9	9	11	4	14	10	8	1	1885	† 91	78	12	91	55	19	13	4
1886	82	7	2	4	6	13	5	4	11	9	7	5	9	..	1886	82	64	18	82	46	20	11	5
1887	105	3	4	10	12	11	5	10	12	10	13	6	9	..	1887	105	75	30	105	63	28	10	4
1888	101	6	4	3	10	13	11	9	7	9	11	8	8	2	1888	101	82	19	101	54	31	12	4
1889	94	9	3	3	7	6	7	7	9	4	8	11	16	1	1889	94	78	16	94	59	19	14	2

* One mulatto.
† One sex unknown.

TABLE 80.—CONTINUED.—*Suicidal deaths.*

Occupations.	No.	Occupations.	No.	Occupations.	No.
Agents	8	Farmer's wives	3	Peddlers	4
Architects	1	Gardeners	2	Physicians	7
Bakers	2	Grain dealers	1	Photographer	1
Bankers	2	Harness-makers	2	Policemen	1
Barbers	2	Hatters	1	Printers	4
Blacksmiths	6	Hotel-keepers	4	Prostitutes	7
Book-keepers	11	House-keepers	97	Sailors	5
Brewers	4	House-wives	30	Salesmen	3
Brick-makers	3	Housework	2	Saloon-keepers	2
Brick-masons	1	Insurance agents	3	Seamstresses	1
Businessmen	3	Laborers	162	Servants	27
Butchers	5	Lawyers	6	Ship-carpenters	1
Cabinet-makers	3	Lumberman	4	Shoemakers	14
Carriage-trimmers	1	Machinists	5	Soldiers	3
Carpenters	29	Manicure	1	Stave-makers	1
Cigar-makers	5	Masons	8	Students	5
Clerks	22	Mechanics	11	Tailors	8
Conductors	1	Merchants	20	Tanners	3
Contractors	1	Millers	3	Teachers	5
Coopers	5	Milliners	1	Teamsters	5
Cutters	1	Miners	5	Tinners	2
Dentists	1	Ministers	1	Unemployed	44
Domestics	5	Mill owners	1	Unknown	124
Draymen	5	Miscellaneous	9	Upholsterers	1
Druggists	3	Musicians	4	Waiters	1
Engineers	5	Painters	8	Weavers	3
Farmers	358				
Total					1,190

TABLE 80.—CONTINUED.—*Suicidal deaths.*

Nativity.	No.	Nativity.	No.	Nativity.	No.
ia	1	Kentucky	1	Poland	3
ıia	1	Maine	3	Prussia	10
a	70	Massachusetts	6	Rhode Island	1
ıdo	1	Michigan	278	Russia	1
ticut	6	Minnesota	1	Scotland	15
are	1	Netherlands	2	Sweden	10
ark	2	New Hampshire	3	Switzerland	3
nd	58	New Jersey	8	Texas	1
e	6	New York	204	United States	2
ıny	225	North Carolina	1	Unknown	89
ıd	10	Norway	1	Vermont	15
ls	3	Nova Scotia	2	Virginia	2
ıa	11	Ohio	65	Wisconsin	9
d	35	Pennsylvania	30	Zealand	2
	1				
tal					1,199

Means used.	No.	Means used.	No.	Means used.	No.
ng	1	Insanity	1	Shooting	118
ıg throat	26	Poison	175	Starving	1
ıing	63	Run over by cars	2	Strangulation	2
nite	1	Severing artery	3	Unknown	645
ng	161				
tal					1,199

PRINCIPAL CAUSES OF DEATH.

teen of the principal causes of death for the year 1889 are given in Table 81. ıual consumption heads the list, though, in common with the other diseases, there ecrease in the number for 1889 as compared with 1888. Heart disease, cancer, ılsions, croup and dropsy are the diseases which show an increase over 1888.

TABLE 81.—*Mortality in Michigan from fifteen principal causes, as returned for the year 1889.*

Order.	Specified causes and conditions, 1889.	Number of deaths.				Per cent from each cause to deaths from all causes.		
		Totals.	Males.	Females.	Unk.	Totals.	Males.	Females.
1	Consumption	2,137	987	1,150	.....	10.51	8.99	12.38
2	Stillborn	1,202	692	483	27	5.92	6.31	5.20
3	Pneumonia	1,048	606	442	.....	5.11	5.52	4.75
4	Heart disease	976	533	443	.....	4.80	4.85	4.76
5	Old age	965	512	453	.....	4.75	4.66	4.87
6	Diphtheria	848	430	418	.....	4.17	3.91	4.50
7	Cholera Infantum	722	390	331	1	3.55	3.55	3.56
8	Apoplexy and Paralysis	680	390	290	.....	3.34	3.55	3.12
9	Typhoid Fever	637	372	265	.....	3.14	3.39	2.85
10	Cancer	492	202	290	.....	2.42	1.84	3.12
11	Convulsions	453	256	196	1	2.23	2.33	2.11
12	Croup	403	192	211	.....	1.98	1.75	2.27
13	Dropsy	398	195	203	.....	1.96	1.78	2.18
14	Brain, Inflammation of	341	190	151	.....	1.19	1.73	1.62
15	Measles	104	51	53	.....	.51	.46	.57
	Totals	11,406	5,998	5,379	29	55.70	54.50	57.74
	All causes	20,315	10,984	9,297	34	100.00	100.00	100.00

MORTALITY FROM TEN PROMINENT CAUSES IN 1889.

Ten prominent causes of death for 1889 are considered in Tables 82 and 83. As usual cancer and typhoid fever are the leading causes of death for all ages, while croup, diphtheria and whooping cough caused most deaths for those aged under five years. The fatality of the diseases for the time of the year, age of decedents, and per cent of deaths from the different causes are given in these tables. The diseases are also further considered in relation to meteorological conditions.

TABLE 82.—*Deaths from ten specified causes returned for the year 1889, exhibiting the number of each sex, total number in each month and at different periods of age.*

Sex, months and ages.	Causes of death, 1889.									
	Cancer.	Cephalitis.	Croup.[a]	Diarrhœa.[b]	Diphtheria.	Dysentery.[c]	Measles.	Scarlet fever.	Typhoid fever.	Whooping cough.
Sex.										
Totals	492	341	403	450	848	158	104	240	637	140
Males	202	190	192	234	430	87	51	110	372	65
Females	290	151	211	215	418	71	53	130	265	75
Unknown	------	------	------	1	------	------	------	------	------	------
Months.										
January	33	24	30	2	67	------	5	25	30	7
February	38	20	33	2	49	1	7	19	26	10
March	36	34	37	8	62	5	14	22	27	16
April	43	34	28	9	41	5	8	19	27	12
May	28	25	17	11	40	3	8	27	19	12
June	45	20	19	29	44	3	10	16	32	9
July	42	34	20	108	43	6	12	18	28	14
August	55	44	20	140	49	55	6	15	67	22
September	49	39	29	94	69	47	10	18	95	18
October	41	23	42	27	108	24	4	18	126	9
November	43	14	53	12	130	6	9	18	98	5
December	38	30	75	8	146	3	11	25	59	6
Unknown	1	------	------	------	------	------	------	------	3	------
Av. month[d]	41	28	34	38	71	7	9	20	53	12
Ages.										
Under 5	12	214	331	395	400	83	86	151	63	131
5 to 10	1	36	64	3	299	8	6	56	48	7
10 to 15	1	12	4	3	82	4	1	23	54	------
15 to 20	6	8	------	1	35	1	1	2	73	------
20 to 25	4	16	------	2	11	3	2	1	112	------
25 to 30	18	9	------	1	7	3	5	1	63	------
30 to 35	18	3	1	2	2	1	------	2	48	------
35 to 40	22	11	------	2	2	2	------	------	27	------
40 to 45	42	4	------	2	1	4	------	1	30	------
45 to 50	50	3	------	5	3	------	1	------	28	------
50 to 55	49	3	1	7	1	4	------	------	21	------
55 to 60	56	4	------	1	------	3	------	1	11	------
60 to 65	47	4	------	4	------	10	------	------	13	------
65 to 70	56	3	------	6	1	8	1	------	12	------
70 to 75	57	2	------	8	------	8	------	1	9	------
75 to 80	30	2	------	3	------	5	------	------	10	------
80 and over	20	------	------	4	------	6	1	------	1	------
Unknown	3	2	2	1	4	5	------	1	14	2

[a] Includes 46 membranous croup.
[b] Includes 4 chronic.
[c] Includes 4 chronic.
[d] Unknown month.

TABLE 83.—*Per cent of deaths returned for the year 1889, from each of ten specified causes to deaths from all causes, and per cent of each sex, of deaths in each month and at different periods of life, to total deaths from each specified cause.*

Sex, months and ages.	Causes of death 1889, per cent of total.									
	Cancer.	Cephalitis.	Croup.	Diarrhea.	Dephtheria.	Dysentery.	Measles.	Scarlet Fever.	Typhoid Fever.	Whooping Cough.
Per cent of all causes.	2.42	1.68	1.98	2.22	4.18	.78	.51	1.18	3.14	.69
Sex. Males	41.06	55.72	47.64	52.00	50.70	55.06	49.04	45.83	58.39	46.42
Sex. Females	58.94	44.28	52.36	47.78	49.30	44.94	50.96	54.17	41.61	53.58
Sex. Unknown	.....	.....	.....	.22	.....	.....	.....	.....	.....	.....
Months. January	6.72	7.04	7.44	.44	7.90	.....	4.80	10.42	4.70	5.00
Months. February	7.72	5.86	8.19	.44	5.77	.63	6.73	7.92	4.08	7.14
Months. March	7.32	9.97	9.18	1.78	7.31	3.16	13.46	9.17	4.24	11.43
Months. April	8.74	9.97	6.95	2.00	4.83	3.17	7.69	7.92	4.24	8.57
Months. May	5.69	7.38	4.22	2.44	4.72	1.90	7.69	11.25	2.98	8.57
Months. June	9.14	5.87	4.72	6.45	5.19	1.90	9.62	6.66	5.02	6.43
Months. July	8.54	9.97	4.96	24.00	5.07	3.80	11.54	7.50	4.49	10.00
Months. August	11.18	12.90	4.96	31.11	5.78	34.80	5.77	6.25	10.25	15.71
Months. September	9.96	11.44	7.20	20.89	8.14	29.75	9.62	7.50	14.92	12.86
Months. October	8.33	6.74	10.42	6.00	12.74	15.19	3.85	7.50	19.78	6.43
Months. November	8.74	4.11	13.15	2.67	15.33	3.80	8.65	7.50	15.29	3.57
Months. December	7.72	8.80	18.61	1.78	17.22	1.90	10.58	10.41	9.26	4.29
Months. Unknown	.20	.....	.....	.....	.....	.....	.....	.....	.47	.....
Months. Average month [a]	8.33	8.21	8.44	8.44	8.37	4.43	8.65	8.33	8.32	8.57
Ages. Under 5	2.44	62.71	82.13	87.78	47.17	52.53	82.70	62.92	9.89	98.57
Ages. 5 to 10	.20	10.56	15.88	.67	35.26	5.06	5.77	23.33	7.54	5.00
Ages. 10 to 15	.20	3.52	.99	.67	9.67	2.53	.96	9.58	8.48	.....
Ages. 15 to 20	1.22	2.35	.....	.22	4.13	.63	.96	.83	11.46	.....
Ages. 20 to 25	.81	4.69	.....	.44	1.30	1.90	1.93	.42	17.58	.....
Ages. 25 to 30	3.66	2.64	.....	.22	.83	1.90	4.80	.42	9.89	.....
Ages. 30 to 35	3.66	.88	.25	.44	.24	.63	.....	.83	7.54	.....
Ages. 35 to 40	4.47	3.23	.....	.44	.24	1.27	.....	.....	4.24	.....
Ages. 40 to 45	8.54	1.18	.....	.45	.11	2.53	.....	.42	4.71	.....
Ages. 45 to 50	10.16	.88	.....	1.11	.35	.....	.96	.....	4.33	.....
Ages. 50 to 55	9.96	2.35	.25	1.56	.12	2.53	.....	.....	3.30	.....
Ages. 55 to 60	11.38	1.18	.....	.22	.....	1.90	.....	.42	1.73	.....
Ages. 60 to 65	9.55	1.18	.....	.89	.....	6.33	.....	.....	2.04	.....
Ages. 65 to 70	11.38	.88	.....	1.33	.11	5.06	.96	.....	1.89	.....
Ages. 70 to 75	11.59	.59	.....	1.78	.....	3.07	.....	.42	1.40	.....
Ages. 75 to 80	6.10	.....	.....	.....	.....	3.17	.....	.....	.....	.....
Ages. 80 and over	4.07	.....	.....	.89	.....	3.80	.96	.....	.16	.....
Ages. Unknown	.61	.59	.50	.22	.47	3.17	.....	.41	2.20	1.43

[a] Excluding deaths in unknown months.

MORTALITY FROM CANCER.

Table 84 gives the number of deaths from cancer for 1872 and 1889 inclusive. The number for 1889 was 492, twelve more than for 1888. With the exception of the three years, 1882, 1884, and 1886, there has been a constant increase in deaths from this cause since 1871. The table, as may be seen, gives the number in groups indicating the part of the body affected. The number in which the part was not specified is 2,730.

TABLE 84.—*Deaths from cancer in Michigan returned for the years 1872-1889, indicating part of body affected.*

Part affected.	Totals.	Males.	Females	Part affected.	Totals.	Males.	Females
Aggregate, years 1872-1889	5,597	2,399	3,198	Cancer of lip	1	1	.....
				Cancer of liver	125	70	55
Cancer of arm	6	3	3	Cancer of lungs	13	7	6
Cancer of bladder	16	13	3	Cancer of mouth	75	50	25
Cancer of bowels	111	41	70	Cancer of neck	24	17	7
Cancer of breast	376	24	352	Cancer of nose	2	2	.....
Cancer of ear	2	1	1	Cancer of œsophagus	3	1	2
Cancer of eye	15	7	8	Cancer of pancreas	3	2	1
Cancer of face	177	128	49	Cancer of rectum	20	11	9
Cancer of foot	3	3	.....	Cancer, rose	8	4	4
Cancer of gall bladder	1	.....	1	Cancer of shoulder	2	2	.....
Cancer in groin	4	3	1	Cancer of side	12	2	10
Cancer of hand	3	2	1	Cancer of spine	5	2	3
Cancer of head	31	19	12	Cancer of stomach	1,442	870	572
Cancer of heart	6	2	4	Cancer of throat	73	42	31
Cancer of hip	1	1	.....	Cancer of tongue	20	10	10
Cancer, internal	31	9	22	Cancer (unspecified)	2,730	1,031	1,699
Cancer of kidneys	7	6	1	Cancer of urethra	1	.....	1
Cancer of leg	19	13	6	Cancer, uterus	229	.....	229

METEOROLOGY AND ITS RELATION TO DEATHS.

Each year there has been published in these reports some of the results of meteorological observations made by observers for the State Board of Health, the U. S. Signal Service, and at the State Agricultural College. The principal conditions exhibited in the following tables are temperature, humidity of the air, ozone, velocity of the wind and pressure of the atmosphere. Study is here made of the occurrence of deaths from different diseases in connection with the above conditions as observed at representative stations in Michigan during the same year and months.

Through the kindness of the Secretary of the State Board of Health, we have been allowed the use of these statistics.

Table 85 shows that the annual average temperature for 1889 was higher than for any of the years included in the table.

The stations represented in the lines for average temperature for the years 1880-1889 in Table 85 are the following: Thornville, Kalamazoo, Lansing; Mendon for 1880-1882; Tecumseh for 1880, 1885 and 1888; Battle Creek for 1880, 1880, 1882, 1885, 1888; Nirvana

first four months of 1880; Reed City for last eight months of 1880 and 1881–1885; Otisville for 1880 and 1881; Niles for 1880 and 1881; Marquette for 1880, 1884, 1886 and 1887; Alpena, Grand Haven, Port Huron, Detroit for 1880–1887; Washington for 1880–1883; Agricultural College for 1881–1888; Escanaba for 1880–1887; Harrisville for 1881 and 1882, 1885 and 1886; Ann Arbor for 1881–1888; Parkville for 1881 and 1882; Traverse City for 1882–1888; Hillsdale for 1882–1884; Marshall for 1882–1888; Winfield for 1881 and 1883; Hudson and Mallory Lake for 1881; Ionia for 1883–1885; Manistique, Swartz Creek for 1884 and 1885; Mackinaw City for 1884–1887; Port Austin for 1885 and 1888; Muskegon, Pentwater for 1886; Gulliver Lake, Birmingham, Otsego for 1887 and 1888.

TABLE 85.—TEMPERATURE.—*Average by years and by months, for the years 1870–1889 inclusive, at representative stations in Michigan.*

Years.	Annual average.	Average temperature, stated in degrees Fahrenheit, by months.											
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1880 (15 stations)	46.55	34.06	27.93	31.00	44.39	62.27	67.41	69.39	68.07	59.54	46.69	27.24	20.67
1881 (20 stations)	47.22	14.93	19.75	29.36	40.53	62.72	63.32	72.95	71.76	67.99	51.87	37.42	34.03
1882 (22 stations)	47.14	24.32	33.42	34.12	42.65	51.04	64.43	67.84	69.05	61.70	53.53	37.90	25.72
1883 (19 stations)	43.52	15.78	20.03	24.63	43.00	51.37	64.73	68.36	65.41	57.24	46.73	38.10	26.89
1884 (20 stations)	44.72	15.14	20.94	28.78	42.00	54.38	67.04	66.70	66.10	64.72	51.56	34.53	24.77
1885 (21 stations)	42.36	15.46	10.21	19.51	41.39	53.32	63.39	71.13	63.23	59.14	45.78	38.14	27.59
1886 (17 stations)	44.82	18.72	21.18	30.10	46.04	54.69	63.31	68.68	67.36	61.15	51.84	34.32	20.44
1887 (17 stations)	44.82	16.58	21.57	25.55	42.09	60.68	66.53	73.22	66.41	57.95	44.46	35.18	27.57
1888 (13 stations)	45.03	15.93	21.65	25.89	42.81	53.40	68.03	70.95	68.05	58.20	46.01	38.73	30.73
1889 (13 stations)	47.36	28.18	18.57	35.83	46.04	56.74	63.05	70.69	68.58	61.36	44.59	37.95	36.76
Average for 10 years [a]	45.35	19.91	21.53	28.48	43.09	56.06	65.12	70.00	67.40	60.90	48.31	35.95	27.52

[a] Average for the ten years ending with 1889.

The Stations represented in the lines for average atmospheric pressure for the years 1880-1889 in Table 86 are the following: Lansing for 1880-1888; Kalamazoo for 1880, 1882, and 1885-1888; Battle Creek for 1880, 1882, 1888; Detroit, Alpena, Grand Haven, Port Huron 1880-1887; Mendon for 1881-1883; Marquette for 1880, 1884, 1886 and 1887; Agricultural College, Ann Arbor for 1881-1888; Otisville for 1880 and 1882; Tecumseh for 1880 and 1882-1885; Washington 1880, 1882 and 1883; Nirvana for first 4 months of 1880; Reed City for last 8 months of 1880-1885; Thornville for 1880-1881 and 1884-1888; Escanaba for 1880, 1882-1887; Traverse City for 1882-1888; Harrisville for 1882 and 1885-1888; Hastings for 1882; Hillsdale for 1882 and 1883; Port Austin for 1883, 1884 and 1888; Marshall for 1883-1888; Manistique 1884 and 1885; Mackinaw City for 1884-1887; Ionia for 1884 and 1885; Swartz Creek for 1885; Birmingham for 1888 and 1887; Gulliver Lake for 1888.

TABLE 86.—PRESSURE OF THE ATMOSPHERE.—*Observations of barometers reduced to freezing point for each of the years 1880-1889, inclusive, and the average for ten years, at representative stations in Michigan.*

Years.	No. of stations.	Annual average.	Pressure of the atmosphere, stated in inches of mercurial column, by months.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1880...	14	29.133	29.134	29.105	29.191	29.048	29.092	29.085	29.106	29.163	29.153	29.150	29.231	29.139
1881...	12	29.151	29.209	29.222	28.979	29.120	29.175	29.082	29.146	29.180	29.122	29.220	29.164	29.187
1882...	21	29.138	29.186	29.121	29.149	29.153	29.123	29.001	29.118	29.112	29.202	29.134	29.224	29.135
1883...	17	29.189	29.221	29.328	29.145	29.125	29.099	29.072	29.140	29.233	29.238	29.275	29.182	29.205
1884...	18	29.205	29.274	29.204	29.202	29.147	29.131	29.273	29.100	29.216	29.210	29.268	29.213	29.229
1885...	19	29.152	29.200	29.119	29.186	29.194	29.092	29.181	29.126	29.151	29.195	29.145	29.092	29.135
1886...	15	29.192	29.188	29.198	29.126	29.230	29.128	29.161	29.159	29.166	29.222	29.331	29.137	29.226
1887...	15	29.215	29.118	29.310	29.250	29.152	29.204	29.203	29.188	29.234	29.305	29.185	29.211	29.218
1888...	12	29.158	29.278	29.129	29.203	29.250	29.065	29.069	29.166	29.144	29.174	29.070	29.202	29.143
1889...	12	29.128	29.068	29.177	29.089	29.116	29.060	29.100	29.104	29.192	29.131	29.228	29.135	29.141
Average *..		29.17	29.19	29.19	29.15	29.15	29.12	29.12	29.14	29.18	29.20	29.20	29.18	29.18

* Average for the years ending with 1889.

Croup—There were 403 deaths caused by croup, according to the returns for 1889. This is less than for 1888, when there were reported 474 deaths from this disease. The ratio of mortality from croup to the total mortality was 1.98 per cent, or 20 per cent less than for 1888. The most fatal months and interesting comparisons of meteorological conditions may be seen by the table following:

TABLE 87.—*Deaths returned from croup in Michigan, by months, during the year 1889, and certain meteorological conditions at representative stations in Michigan, during the same year and months.*

Months in order by number of deaths from croup, greatest first.	Deaths from croup, 1889.		Temperature, degrees Fahr.		Humidity of atmosphere, etc., monthly averages.				Ozone,—relative maximum =10.			
	Number.	Per cent of Total.	Average daily range by registering thermometers.	Average of three daily observations.	Relative per cent of saturation.	Absolute grains of vapor in a cubic foot of air, a	Weight in troy ounces of vapor inhaled by one person in 24 hours, b	Weight in troy ounces of vapor exhaled from air passages in 24 hours in excess of vapor inhaled, c	Day,—7 a. m. to 2 p. m.	Night,—9 p. m. to 7 a. m.	Average velocity of wind, miles per hour, by registering anemometer.	Average pressure of atmosphere (barometer reduced to 32° Fahr.)
Number of stations included in meteorological averages	d403	100.00	16	13	9	9	9	9	8	8	7	12
More than the Av. No. of deaths. December	75	18.61	13.41	36.76	84	2.43	1.52	10.16	3.83	4.05	11.0	29.141
November	53	13.15	11.81	37.95	84	2.52	1.57	10.11	3.62	3.36	9.7	29.135
October	42	10.42	16.98	44.59	73	2.76	1.73	9.95	3.54	3.29	8.8	29.228
March	37	9.18	16.74	35.83	77	2.13	1.33	10.35	3.95	4.15	9.4	28.089
Average	34	8.33	17.46	47 36	77	3.47	2.17	9.51	3.98	4.05	9.2	29.128
Less than the average No. of deaths. February	33	8.19	17.32	e18.57	88	1.34	f.82	10.86	4.15	4.29	10.7	29.177
January	30	7.45	13.93	e28.18	85	1.77	f1.11	10.57	4.31	3.89	10.2	29.068
September	29	7.20	20 59	61.36	74	4.82	3.01	8.67	3.97	3.70	9.1	29.131
April	28	6.95	18.74	e46.04	71	2.88	f1.80	9.88	3.91	4.30	9.5	29.116
August	20	4.96	21.50	68.58	70	5.52	3.45	8.23	3.93	4 03	7.7	29.192
July	20	4.96	21.20	70.69	75	6.19	3.87	7.81	3.80	3.97	6.9	29.104
June	19	4.71	18.00	63.05	80	5.33	3.33	8.35	4.61	5.00	7.5	29.100
May	17	4.22	19.28	56.74	69	3.95	2.47	9.21	4.19	4.51	9.9	29.060

a Calculated from readings of dry bulb and wet bulb thermometers.
b Calculated for 18 respirations per minute of 20 cubic inches of air each.
c Assuming the air exhaled to be saturated with vapor at the temperature of 98° F., each cubic foot containing 18.69 grains, 18 respirations per minute, of 20 cubic inches of air each, making 11.68 Troy ounces of vapor exhaled daily. No correction made for expansion of air after being inhaled.
d Includes 46 deaths from membranous croup.
e Exceptions to the proposition that *more* than an average number of deaths from croup occurred in months when the average daily temperature was *less* than the average, and *vice versa*.
f Exceptions to the proposition that *more* than the average number of deaths from croup occurred in months when there was *less* than the average quantity of vapor inhaled, and *vice versa*.

Diphtheria—The number of deaths caused by this disease for several years can be seen in the following statement:

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.
887	1,478	1,542	2,063	1,416	1,007	1,065	1,054	1,117	935	717	848

As usual there were more deaths in the last months of the year, and more than three-quarters of the deaths occurred among children under ten years of age.

The exhibit following shows the number of deaths from diphtheria for each of the geographical divisions of the State, and in Table 88 the disease is considered in relation to climatic conditions:

TABLE 87.—*Relative prevalence of diphtheria in 1889 in each of the eleven geographical divisions of the State.*

State and geographical divisions.	Total mortality from all causes.	Deaths from diphtheria.	Per cent of deaths from diphtheria to deaths from all causes.
State	20,315	848	4.17
Upper Peninsula	1,757	120	6.80
Northwestern	539	15	2.78
Northern	418	11	2.63
Northeastern	386	2	.52
Western	2,384	155	6.50
Northern central	524	2	.38
Eastern	2,996	130	4.34
Central	2,424	39	1.61
Southwestern	1,098	33	3.01
Southern central	2,748	87	3.17
Southeastern	5,041	254	5.04

TABLE 88.—*Deaths returned from diphtheria in Michigan, by months, during year 1889, and some coincident meteorological conditions, at representative s tions in Michigan during the same year and months.*

Months in order by number of deaths from diphtheria, greatest first.	Deaths from diphtheria, 1889.		Temperature, degrees Fahr.		Humidity of atmosphere, etc., monthly averages.				Ozone,—relative maximum =10.			
	Number.	Per cent of total.	Average daily range by registering thermometer.	Average of three daily observations.	Relative per cent of saturation.	Absolute grains of vapor in a cubic foot of air. [a]	Weight in Troy ounces of vapor inhaled by one person in 24 hours. [a]	Weight in Troy ounces of vapor exhaled from air passages in 24 hours in excess of vapor inhaled. [a]	Day,—7 a. m. to 2 p. m.	Night,—9 p. m. to 7 a. m.	Average velocity of wind, miles per hour, by registering anemometer.	Average pressure of atmosphere, (barometer
Number of stations included in meteorological averages	848	100.00	16	13	9	9	9	9	8	8	7	
More than the average No. of deaths. — December	146	17.22	13.41	36.76	84	2.43	1.52	10.16	3.83	4.05	11.0	2
November	130	15.33	11.81	37.95	84	2.52	1.57	10.11	3.62	3.36	9.7	2
October	108	12.74	16.98	44.59	73	2.76	1.73	9.95	3.54	3.29	8.8	2
Average	71	8.33	17.46	47.36	77	3.47	2.17	9.51	3.98	4.05	9.2	2
Less than the average No. of deaths. — September	69	8.14	20.59	61.36	74	4.82	3.01	8.67	3.97	3.70	9.1	2
January	67	7.90	13.93	[b]28.18	85	1.77	[c]1.11	10.57	4.31	3.89	10.2	2
March	62	7.31	16.74	[b]35.83	77	2.13	[c]1.33	10.35	3.95	4.15	9.4	2
August	49	5.78	21.50	68.58	70	5.52	3.45	8.23	3.93	4.03	7.7	2
February	49	5.78	17.32	[b]18.57	88	1.34	[c].82	10.86	4.15	4.29	10.7	2
June	44	5.19	18.00	65.05	80	5.33	3.33	8.35	4.61	5.00	7.5	2
July	43	5.07	21.20	70.69	75	6.19	3.87	7.81	3.80	3.97	6.9	2
April	41	4.83	18.74	[b]46.04	71	2.88	[c]1.80	9.88	3.91	4.30	9.5	2
May	40	4.71	19.28	56.74	69	3.95	2.47	9.21	4.19	4.51	9.9	2

[a] See foot-notes to Table 87.
[b] Exceptions to the proposition that *more* than an average number of deaths from diphtheria occu in months when the average daily temperature was *less* than the average, and *vice versa*.
[c] Exceptions to the proposition that *more* than an average number of deaths from diphtheria occu in months when *less* than the average quantity of vapor was inhaled, and *vice versa*.

Typhoid fever—In Table 89 the relation of deaths from typhoid fever to certain atmospheric conditions for 1889 are given. The autumn months, as usual, show much the largest number of deaths from this disease.

The number of deaths for 1889 caused by typhoid fever was 637, and for 1888 it was 638, showing that, notwithstanding the decrease in the total number of deaths, it has prevailed as much as usual.

TABLE 89.—*Deaths returned in Michigan from typhoid fever, by months, during the year 1889, and some coincident meteorological conditions, at representative stations in Michigan during the same year and months.*

Months in order by number of deaths from typhoid fever, greatest first.	Deaths from typhoid fever, 1889.		Temperature, degrees Fahr.		Humidity of atmosphere, etc.—Monthly averages.				Ozone,—relative maximum =10.			
	Number.	Per cent of total.	Average daily range by registering thermometer.	Average of three daily observations.	Relative per cent of saturation.	Absolute grains of vapor in a cubic foot of air.[a]	Weight in Troy ounces of vapor inhaled by one person in 24 hours.[a]	Weight in Troy ounces of vapor exhaled from air passages in 24 hours in excess of vapor inhaled.[a]	Day,—7 a. m. to 2 p. m.	Night,—9 p. m. to 7 a. m.	Average velocity of wind—miles per hour—by registering anemometers.	Average pressure of atmosphere. (Barometer reduced to 32° Fahr.)
Number of stations included in meteorological averages	*634	100.00	16	13	9	9	9	9	8	8	7	12
More than the Av. No. of deaths.												
October	126	19.87	b 16.98	c 44.59	73	d 2.76	1.73	9.95	3.54	3.29	8.8	29.228
November	98	15.46	b 11.81	c 37.95	84	d 2.52	1.57	10.11	3.62	3.36	9.7	29.135
September	95	14.98	20.59	61.36	74	4.82	3.01	8.67	3.97	3.70	9.1	29.131
August	67	10.57	21.50	68.58	70	5.52	3.45	8.23	3.93	4.03	7.7	29.192
December	59	9.31	b 13.41	c 36.76	84	d 2.43	1.52	10.16	3.83	4.05	11.0	29.141
Average	53	8.33	17.46	47.36	77	3.47	2.17	9.51	3.98	4.05	9.2	29.128
Less than the average No. of deaths.												
June	32	5.04	b 18.00	c 63.05	80	d 5.33	3.33	8.35	4.61	5.00	7.5	29.100
January	30	4.73	13.93	28.18	85	1.77	1.11	10.57	4.31	e 3.89	10.2	29.068
July	28	4.42	b 21.20	c 70.69	75	d 6.19	3.87	7.81	e 3.80	e 3.97	6.9	29.104
March	27	4.26	16.74	35.83	77	2.13	1.33	10.35	e 3.95	4.15	9.4	29.028
April	27	4.26	b 18.74	46.04	71	2.88	1.80	9.88	e 3.91	4.30	9.5	29.116
February	26	4.10	17.32	18.57	88	1.34	.82	10.86	4.15	4.29	10.7	f 29.177
May	19	3.00	b 19.28	c 56.74	69	d 3.95	2.47	9.21	4.19	4.51	9.9	29.060

[a] See foot-notes to Table 87.
[b] Exceptions to the proposition that the average daily range of temperature was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.
[c] Exceptions to the proposition that the average daily temperature was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.
[d] Exceptions to the proposition that the absolute humidity was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.
[e] Exceptions to the proposition that the ozone was *less* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.
[f] Exceptions to the proposition that the atmospheric pressure indicated by the barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.
[g] Excluding 1 deaths in unknown month.

TABLE 88.—*Deaths returned from diphtheria in Michigan, by months, during the year 1889, and some coincident meteorological conditions, at representative stations in Michigan during the same year and months.*

Months in order by number of deaths from diphtheria, greatest first.	Deaths from diphtheria, 1889.		Temperature, degrees Fahr.		Humidity of atmosphere, etc., monthly averages.				Ozone,—relative maximum =10.		Average velocity of wind, miles per hour, by registering anemometer.	Average pressure of atmosphere, (barometer reduced to 32° Fahr.)
	Number.	Per cent of total.	Average daily range by registering thermometer.	Average of three daily observations.	Relative per cent of saturation.	Absolute grains of vapor in a cubic foot of air. [a]	Weight in Troy ounces of vapor inhaled by one person in 24 hours. [a]	Weight in Troy ounces of vapor exhaled from air passages in 24 hours in excess of vapor inhaled. [a]	Day,—7 a. m. to 2 p. m.	Night,—9 p. m. to 7 a. m.		
Number of stations included in meteorological averages	848	100.00	16	13	9	9	9	9	8	8	7	12
December	146	17.22	13.41	36.76	84	2.43	1.52	10.16	3.83	4.05	11.0	29.141
November	130	15.33	11.81	37.95	84	2.52	1.57	10.11	3.62	3.36	9.7	29.135
October	108	12.74	16.98	44.59	73	2.76	1.73	9.95	3.54	3.29	8.8	29.228
Average	71	8.33	17.46	47.36	77	3.47	2.17	9.51	3.98	4.05	9.2	29.128
September	69	8.14	20.59	61.36	74	4.82	3.01	8.67	3.97	3.70	9.1	29.131
January	67	7.90	13.93	b28.18	85	1.77	c1.11	10.57	4.31	3.89	10.2	29.068
March	62	7.31	16.74	b35.83	77	2.13	c1.33	10.35	3.95	4.15	9.4	29.089
August	49	5.78	21.50	68.58	70	5.52	3.45	8.23	3.93	4.03	7.7	29.192
February	49	5.78	17.32	b18.57	88	1.34	c.82	10.86	4.15	4.29	10.7	29.177
June	44	5.19	18.00	65.05	80	5.33	3.33	8.35	4.61	5.00	7.5	29.100
July	43	5.07	21.20	70.69	75	6.19	3.87	7.81	3.80	3.97	6.9	29.104
April	41	4.83	18.74	b46.04	71	2.88	c1.80	9.88	3.91	4.30	9.5	29.116
May	40	4.71	19.28	56.74	69	3.95	2.47	9.21	4.19	4.51	9.9	29.060

[a]-notes to Table 87.

[b]ons to the proposition that *more* than an average number of deaths from diphtheria occurred when the average daily temperature was *less* than the average, and *vice versa*.

[c]ns to the proposition that *more* than an average number of deaths from diphtheria occurred when *less* than the average quantity of vapor was inhaled, and *vice versa*.

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible] Table K, page 38.

[illegible] the proportion that were than the average number of deaths from diarrhœa [illegible]

[illegible] the average daily range of temperature was greater than the average, but not [illegible]

[illegible] the proportion that were than the average number of deaths from diarrhœa [illegible]

[illegible] the average daily temperature was higher than the average, but not [illegible]

[illegible] the proportion that were than the average number of deaths from diarrhœa [illegible]

[illegible] the relative humidity of the atmosphere was less than the average, but not [illegible]

[illegible] the proportion that were than the average number of deaths from diarrhœa [illegible]

[illegible] the absolute humidity of the atmosphere was greater than the average, but not [illegible]

[illegible] to the proportion that were than the average number of deaths from diarrhœa [illegible]

[illegible] the amount of ozone in the atmosphere was less than the average, but not [illegible]

[illegible] to the proportion that were than the average number of deaths from diarrhœa [illegible]

[illegible] when the average daily pressure of the atmosphere was greater than the average, but not [illegible]

Scarlet fever—The number of deaths from this disease for 1889 was considerably less than was returned for 1888, there being 240 for 1889 and 323 for 1888, but which was the most for any year since 1884.

As will be seen by the table the deaths are quite evenly distributed throughout the year. It was, as usual, most fatal among children under ten years of age. The ratio of deaths from scarlet fever to the total number of deaths was 1.18 per cent, while for 1888 it was 1.48 per cent.

TABLE 92.—*Deaths returned in Michigan from scarlet fever, by months, during the year 1889, and some coincident meteorological conditions, at representative stations in Michigan during the same year and months.*

Months in order by number of deaths from scarlet fever, greatest first.	Deaths from scarlet fever, 1889.		Temperature, degrees Fahr.		Humidity of atmosphere, etc., monthly averages.				Ozone,—relative maximum =10.			
	Number.	Per cent of total.	Average daily range by registering thermometers.	Average of three daily observations.	Relative per cent of saturation.	Absolute grains of vapor in a cubic foot of air, a	Weight in Troy ounces of vapor inhaled by one person in 24 hours, a	Weight in Troy ounces of vapor exhaled from air passages in 24 hours in excess of vapor inhaled, a	Day,—7 a. m. to 2 p. m.	Night,—9 p. m. to 7 a. m.	Average velocity of wind—miles per hour—by registering anemometer.	Average pressure of atmosphere, (Barometer reduced to 32° Fahr.)
Number of stations included in meteorological averages	240	100.00	16	13	9	9	9	9	8	8	7	12
More than the av. No. of deaths. May	27	11.25	19.28	b 56.74	69	c 3.95	2.47	9.21	4.19	4.51	9.9	29.060
January	25	10.41	13.93	28.18	85	1.77	1.11	10.57	4.31	3.89	10.2	29.068
December	25	10.41	13.41	36.76	84	2.43	1.52	10.16	3.83	4.05	11.0	29.141
March	22	9.16	16.74	35.83	77	2.13	1.33	10.35	3.95	4.15	9.4	29.089
Average	20	8.33	17.46	47.36	77	3.47	2.17	9.51	3.98	4.05	9.2	29.128
Less than the average No. of deaths. April	19	7.93	18.74	b 46.04	71	c 2.88	1.80	9.88	3.91	4.30	9.5	29.116
February	19	7.93	17.32	b 18.57	88	c 1.34	.82	10.86	4.15	4.29	10.7	29.177
September	18	7.50	20.59	61.36	74	4.82	3.01	8.67	3.97	3.70	9.1	29.131
October	18	7.50	16.98	b 44.59	73	c 2.76	1.73	9.95	3.54	3.29	8.8	29.228
November	18	7.50	11.81	b 37.95	84	c 2.52	1.57	10.11	3.62	3.36	9.7	29.135
July	18	7.50	21.20	70.69	75	6.19	3.87	7.81	3.80	3.97	6.9	29.104
June	16	6.66	18.00	63.05	80	5.33	3.33	8.35	4.61	5.00	7.5	29.100
August	15	6.25	21.50	68.58	70	5.52	3.45	8.23	3.93	4.03	7.7	29.193

a See foot-notes to Table 87.

b Exceptions to the proposition that the average daily temperature was *lower* than the average in months when *more* than the average number of deaths from scarlet fever occurred, and *vice versa*.

c Exceptions to the proposition that the absolute humidity of the atmosphere was *less* than the average in months when *more* than the average number of deaths from scarlet fever occurred, and *vice versa*.

Consumption—This disease caused the deaths of 2,137 persons during the year 1889. For 1888 the number reported was 2,424. It is by far the most destructive of all causes of death in Michigan. Of the decedents for 1889 there were 987 males and 1,150 females. In-door occupation and sedentary lives probably account for this excess among the females. The period of age at which most deaths occurred was from 20 to 30. This has been true for every year for the last nineteen years. Table 93 and the exhibits preceding it give full information regarding this disease.

Mortality from consumption by months and quarters, 1889.

Months.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	171	134	189	199	192	157	143	209	204	172	162	198	7
Quarters	494			548			556			532			7
Per cent	23.12			25.64			26.02			24.90			.33

Total mortality from consumption by sex, months, and age, 1869–1889.

	Sex.		Totals.	Months.												
	Males.	Females.		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Males	17,054	.....	.....	1,040	1,173	1,571	1,609	1,591	1,341	1,355	1,437	1,483	1,396	1,404	1,597	57
Females	.....	19,771	.....	1,196	1,356	1,700	1,814	1,801	1,577	1,606	1,715	1,823	1,673	1,613	1,821	76
Totals	.....	.....	36,825	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Quarters	.....	.....	.....	8,036			9,733			9,419			9,504			133
Per cent	.....	.....	.....	21.82			26.43			25.58			25.81			.36

	Ages.											
	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Males	1,215	206	250	1,021	3,946	2,859	2,223	1,953	1,841	1,077	192	271
Females	1,164	231	592	2,320	5,753	3,518	2,117	1,543	1,302	793	156	282
Totals	2,379	437	842	3,341	9,699	6,377	4,340	3,496	3,143	1,870	348	553
Per cent	6.46	1.19	2.01	9.07	26.30	17.32	11.79	9.49	8.53	5.08	.94	1.50

Mortality from consumption by sex and age, 1889.

Ages.	Deaths from all causes.	Deaths from consumption.	Per cent at several ages.	Males.	Females.	Per cent of deaths from consumption to population.
Under 10	8,578	145	6.79	71	74	.033
10 to 20	1,219	256	11.98	72	184	.067
20 to 30	1,797	568	26.58	250	318	.161
30 to 40	1,457	412	19.28	174	238	.161
40 to 50	1,256	240	11.23	132	108	.131
50 to 60	1,312	187	8.75	115	72	.150
60 to 70	1,730	185	8.66	88	97	.250
70 to 80	1,719	105	4.91	66	39	.341
80 and over	963	15	.70	7	8	.195
Age not stated	284	24	1.12	12	12	1.648
Totals	20,315	2,137	100.00	987	1,150	.115

TABLE 93.—CONSUMPTION.—*Deaths from consumption returned in Michigan, by months, during the year 1889, and some coincident meteorological conditions, at representative Stations in Michigan during the same year and months.*

	Months in order by number of deaths from consumption, greatest first.	Deaths from consumption, 1889.		Temperature, degrees Fahr.		Humidity of atmosphere, etc., monthly averages.				Ozone,—relative maximum =10.			
		Number.	Per cent of total.	Average daily range by registering thermometers.	Average of three daily observations.	Relative per cent of saturation.	Absolute grains of vapor in a cubic foot of air. a	Weight in Troy ounces of vapor inhaled by one person in 24 hours. a	Weight in Troy ounces of vapor exhaled from air passages in 24 hours in excess of vapor inhaled. a	Day,—7 A. M. to 2 P. M.	Night,—9 P. M to 7 A. M.	Average velocity of wind—miles per hour—by registering anemometers.	Average pressure of atmosphere. (barometer reduced to 32° Fahr.)
	No. stations included in meteorological av'r'g's	b2,130	100.00	16	13	9	9	9	9	8	8	7	12
More than the average No. of deaths.	August	209	9.81	21.50	68.58	70	5.52	3.45	8.23	3.93	4.03	7.7	29.192
	September	204	9.58	20.59	61.36	74	4.82	3.01	8.67	3.97	3.70	9.1	29.131
	April	199	9.34	18.74	c 46.04	71	2.88	d 1.80	9.88	3.91	4.30	9.5	29.116
	December	198	9.30	13.41	c 36.76	84	2.43	d 1.52	10.16	3.83	4.05	11.0	29.141
	May	192	9.01	19.28	56.74	69	3.95	2.47	9.21	4.19	4.51	9.9	29.060
	March	189	8.87	16.74	c 35.83	77	2.13	d 1.33	10.35	3.95	4.15	9.4	29.089
Average		178	8.33	17.46	47.36	77	3.47	2.17	9.51	3.98	4.05	9.2	29.128
Less than the average No. of deaths.	October	172	8.08	16.98	44.59	73	2.76	1.73	9.95	3.54	3.29	8.8	29.228
	January	171	8.03	13.93	28.18	85	1.77	1.11	10.57	4.31	3.89	10.2	29.068
	November	162	7.61	11.81	37.95	84	2.52	1.57	10.11	3.62	3.36	9.7	29.135
	June	157	7.37	18.00	c 63.05	80	5.33	d 3.33	8.35	4.61	5.00	7.5	29.100
	July	143	6.71	21.20	c 70.69	75	6.19	d 3.87	7.81	3.80	3.97	6.9	29.104
	February	134	6.29	17.32	18.57	88	1.34	.82	10.86	4.15	4.29	10.7	29.177

a See foot-notes to Table 87.
b Excluding 7 deaths in unknown months.
c Exceptions to the proposition that the average daily temperature was *higher* than the average in months when *more* than the average number of deaths from consumption occurred, and *vice versa*.
d Exceptions to the proposition that *more* than the average amount of vapor was inhaled in months in which there was *more* than the average number of deaths from consumption, and *vice versa*.

Pneumonia.—The following tables give certain facts concerning the mortality from pneumonia. There were 1,048 deaths from this disease for the year 1889. As will be seen by Table 94 it is most prevalent in the winter and early spring, and that its fatality is greatest among those of advanced age who cannot withstand its attacks.

Every year there are more deaths among males than among females, there being for 1889, 606 males and 442 females.

TABLE 94.—*By months, the number of deaths returned from pneumonia in Michigan during each of the years 1880-1889, and the average for ten years ending with 1889.*

Years.	Totals.	Deaths from pneumonia, 1880-1889.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
1880	812	56	82	111	113	79	37	29	36	51	44	68	105	1
1881	805	77	88	126	100	70	37	39	29	47	55	43	91	3
1882	735	59	65	84	82	94	58	29	29	36	43	57	97	2
1883	737	76	61	97	104	89	40	30	42	27	41	53	76	1
1884	767	68	101	106	83	67	39	34	42	34	30	70	90	3
1885	733	65	100	122	86	66	34	26	26	41	45	43	78	1
1886	783	57	62	113	100	63	48	32	28	36	46	76	121	1
1887	884	87	112	122	113	75	44	28	36	52	64	66	84	1
1888	1,190	96	153	181	143	128	74	36	37	68	68	74	113	1
1889	1,048	122	103	139	147	75	52	50	47	48	80	75	108	2
Average for 10 years	849	76	93	120	107	81	46	33	35	44	52	62	96	2

TABLE 95.—*Deaths returned from pneumonia in Michigan during the year 1889, and some coincident meteorological conditions at representative stations in Michigan during the same year and months.*

	Months in order by number of deaths from pneumonia, greatest first.	Deaths from pneumonia, 1889.		Temperature, degrees Fahr.		Humidity of atmosphere, etc., monthly averages.				Ozone,—relative maximum =10.		Average velocity of wind—miles per hour—by registering anemometer.	Average pressure of atmosphere, (Barometer reduced to 32° Fahr.)
		Number.	Per cent of total.	Average daily range by registering thermometers.	Average of three daily observations.	Relative per cent of saturation.	Absolute grains of vapor in a cubic foot of air, a	Weight in Troy ounces of vapor inhaled by one person in 24 hours, a	Weight in Troy ounces of vapor exhaled from air passages in 24 hours in excess of vapor inhaled, a	Day,—7 a. m. to 2 p. m.	Night,—9 p. m. to 7 a. m.		
	Number of stations included in meteorological averages	*1,046	100.00	16	13	9	9	9	9	8	8	7	12
More than the av. No. of deaths.	April	147	14.05	18.74	46.04	71	2.88	1.80	9.88	3.91	4.30	9.5	29.116
	March	139	13.29	16.74	35.83	77	2.13	1.33	10.35	3.95	4.15	9.4	29.089
	January	122	11.66	13.93	28.18	85	1.77	1.11	10.57	4.31	3.89	10.2	29.068
	December	108	10.32	13.41	36.76	84	2.43	1.52	10.16	3.83	4.05	11.0	29.141
	February	103	9.86	17.32	18.57	88	1.34	.82	10.86	4.15	4.29	10.7	29.177
Average		87	8.33	17.46	47.36	77	3.47	2.17	9.51	3.98	4.05	9.2	29.128
Less than the average No. of deaths.	October	80	7.65	16.98	b 44.59	73	2.76	c 1.73	9.95	3.54	3.29	8.8	29.228
	November	75	7.17	11.81	b 37.95	84	2.52	c 1.57	10.11	3.62	3.36	9.7	29.135
	May	75	7.17	19.28	56.74	69	3.95	2.47	9.21	4.19	4.51	9.9	29.060
	June	52	4.97	18.00	63.05	80	5.33	3.33	8.35	4.61	5.00	7.5	29.100
	July	50	4.78	21.20	70.69	75	6.19	3.87	7.81	3.80	3.97	6.9	29.104
	September	48	4.59	20.59	61.36	74	4.82	3.01	8.67	3.97	3.70	9.1	29.131
	August	47	4.49	21.50	68.58	70	5.52	3.45	8.23	3.93	4.03	7.7	29.192

a See foot-notes to Table 87.
b Exceptions to the proposition that the average daily temperature was *lower* than the average in months when *more* than the average number of deaths from pneumonia occurred, and *vice versa*.
c Exceptions to the proposition that *less* than the average amount of vapor was inhaled in months when *more* than the average number of deaths from pneumonia occurred, and *vice versa*.
* Excluding 2 deaths in unknown month.

In Table 96 is given the relative prevalence in 1889 of consumption, pneumonia, typhoid fever, scarlet fever, and diarrhea for each of the eleven geographical divisions of the State. The proportion of each to the total number of deaths may be seen, and interesting comparisons made. The counties included in each division are given in Table 75.

TABLE 96.—*Exhibiting for the State and eleven geographical divisions, in 1889, the number and per cent of deaths returned from all causes, from consumption, pneumonia, typhoid fever, scarlet fever and diarrhea.*

State and geographical divisions.	Deaths from all causes, 1889.	Consumption.		Pneumonia.		Typhoid Fever.		Scarlet Fever.		Diarrhea.	
		Number of deaths.	Per cent to deaths from all causes.	Number of deaths.	Per cent to deaths from all causes.	Number of deaths.	Per cent to deaths from all causes.	Number of deaths.	Per cent to deaths from all causes.	Number of deaths.	Per cent to deaths from all causes.
State	20,315	2,173	10.70	1 130	5.56	638	3.14	240	1.18	450	2.22
Upper Peninsula	1,757	111	6.32	80	4.55	121	6.89	16	.91	58	3.30
Northwestern	539	38	7.05	36	6.68	21	3.90	.....	.....	14	2.60
Northern	418	54	12.92	15	3.59	16	3.83	5	1.20	9	2.15
Northeastern	386	25	6.48	26	6.74	4	1.04	9	2.33	12	3.11
Western	2,384	249	10.44	133	5.58	97	4.07	4	.17	70	2.36
Northern central	524	71	13.55	24	4.58	15	2.86	6	1.15	6	1.15
Eastern	2,996	299	9.98	162	5.41	95	3.17	39	1.30	65	2.17
Central	2,424	300	12.38	123	5.07	88	3.63	36	1.49	24	.99
Southwestern	1,098	150	13.66	74	6.74	27	2.46	6	.55	3	.27
Southern central	2,748	330	12.01	164	5.97	62	2.26	24	.87	12	.44
Southeastern	5,041	546	10.83	293	5.81	92	1.83	95	1.88	177	3.53

In Table 97 may be found the number of deaths from old age, those aged 70 and over and of those under five, for each of the geographical divisions of the State, during the year 1889. In 1888 there were 1,174 deaths from old age returned. The per cent of deaths to the population for each division is given. An examination of the table will show how the rate varies in the different sections.

TABLE 97.—*Exhibiting for the State and eleven geographical divisions, the number and per cent of deaths at all ages, from old age, of all aged 70 and over, and of all aged under 5, during the year 1889.*

State and geographical divisions.	Deaths at all ages,—1889.	Old age.		Aged 70 and over.		Aged under 5.	
		Number of deaths.	Per cent to deaths at all ages by geographical divisions.	Number of deaths.	Per cent to deaths at all ages by geographical divisions.	Number of deaths.	Per cent to deaths at all ages by geographical divisions.
State	20,315	965	4.75	2,682	13.20	7,664	37.73
Upper Peninsula	1,757	29	1.65	54	3.06	944	54.86
Northwestern	539	29	5.38	50	9.28	235	43.60
Northern	418	8	1.91	28	6.70	184	44.02
Northeastern	386	1	.26	9	2.33	202	52.33
Western	2,384	103	4.32	282	11.83	948	39.77
Northern central	524	16	3.05	52	9.92	212	40.46
Eastern	2,996	125	4.17	303	10.11	1,242	41.46
Central	2,424	153	63.12	491	20.25	652	26.90
Southwestern	1,098	66	60.11	215	10.47	295	26.87
Southern central	2,748	221	8.04	650	2.37	611	22.23
Southeastern	5,041	214	4.25	548	10.87	2,139	42.43

The average age of all who have died in the State for the years 1887, 1888, and 1889, with a ten years average, may be found in Table 98. The average age of total decedents was 28.55 for 1889, and 28.52 for 1888. The average age of males for 1889 was 30.44, and 28.80 for 1888. The average age of females for 1889 was 29.40, and for 1888 was 28.12. The average age of male decedents aged over 20 was 55.04 for 1888, the females for the same time and age was 52.41. For 1889 the averages were 52.70 and 45.85.

TABLE 98.—*Showing the average age of decedents in Michigan during the years 1887, 1888, 1889, and the average for ten years, 1879–1888.*

	Year ending,	Average age in years and 100ths of a year.			
		Totals.	Males.	Females	Excess of males.
Deaths as shown by registration returns	Dec. 31, 1887	29.10	29.07	28.04	1.03
Deaths of native born inhabitants as shown by registration returns		21.86	21.82	22.32	-.50
Deaths of foreign born inhabitants as shown by registration returns		49.74	50.23	49.12	1.11
Deaths from consumption, by registration returns		35.40	37.06	34.00	3.00
All aged 20 and over whose occupations were stated in registration returns of deaths		51.88	53.70	49.48	4.22
All who died aged 20 years and over as shown by registration returns		53.72	55.17	52.03	3.14
Deaths of native born inhabitants aged 20 years and over as shown by registration returns		52.52	55.22	50.82	4.40
Deaths of foreign born inhabitants aged 20 years and over as shown by registration returns		54.27	54.21	54.38	-.17
Deaths as shown by registration returns	Dec. 31, 1888	28.52	28.80	28.12	.68
Deaths of native born inhabitants as shown by registration returns		21.83	21.70	22.11	-.41
Deaths of foreign born inhabitants as show by registration returns		50.49	50.80	50.11	.69
Deaths from consumption, by registration returns		35.55	37.73	33.79	3.94
All aged 20 and over whose occupations were stated in registration returns of deaths		52.15	53.80	50.01	3.79
All who died aged 20 years and over as shown by registration returns		54.29	55.92	52.41	3.51
Deaths of native born inhabitants aged 20 years and over as shown by registration returns		52.92	55.04	50.95	4.09
Deaths of foreign born inhabitants aged 20 years and over as shown by registration returns		54.96	55.27	54.58	.69
Deaths as shown by registration returns	Dec. 31, 1889	28.55	30.44	29.40	1.04
Deaths of native born inhabitants as shown by registration returns		25.20	23.25	22.11	1.14
Deaths of foreign born inhabitants as shown by registration returns		50.88	49.90	55.04	-5.14
Deaths from consumption by registration returns		35.08	36.70	30.35	6.35
All aged 20 years and over whose occupations were stated in registration returns of deaths		53.79	51.05	56.12	-5.07
All who died aged 20 years and over as shown by registration returns		51.77	52.70	45.85	6.85
Deaths of native born inhabitants aged 20 years and over as shown by registration returns		59.12	54.21	50.16	4.05
Deaths of foreign born inhabitants aged 20 years and over as shown by registration returns		54.66	53.29	59.14	-5.85
Deaths as shown by registration returns	Average for 10 years, 1879-1888	26.82	37.34	26.29	11.05
Deaths of native born inhabitants as shown by registration returns		20.77	20.80	20.90	-.10
Deaths of foreign born inhabitants as shown by registration returns		48.53	49.08	47.27	1.81
Deaths from consumption, by registration returns		35.80	31.18	33.74	-2.56
All aged 20 years and over whose occupations were stated in registration returns of deaths		52.30	54.27	49.92	4.35
All who died aged 20 years and over as shown by registration returns		47.78	54.45	50.99	3.46
Deaths of native born inhabitants aged 20 years and over as shown by registration returns		51.69	54.22	50.45	4.77
Deaths of foreign born inhabitants aged 20 years and over as shown by registration returns		53.92	54.01	53.18	.83

LONGEVITY OF DECEDENTS.

Table 99 gives a total of all decedents aged over 20, classed by occupations, who have died in this State for the last 20 years.

No definite conclusion can be drawn from the age attained by any single individual, but when a sufficient number engaged in any one occupation can be taken collectively, they form a good basis for an average estimate of longevity or expectation of life.

The table is divided into twelve general classes, and under each class are included the various trades and professions to which each belongs.

It is hoped that the facts here given will be put to some good use in throwing some light upon the comparative healthfulness of different pursuits. If the number and average age of the living among these various classes were known, it would add greatly to the value of these statistics.

In the following sub-divisions of the classes, those occupations are selected which have the highest and lowest average age. In these exhibits, care is taken to select such examples only as have cases enough to form some reasonable basis for estimates.

No.	Males.	Av. age.	No.	Females.	Av. age.
33	Retired farmers	69.99	117	Weavers	68.62
93	Retired	72.78	34	Physicians	58.98
21	Weavers	73.00	93	Nurses	58.49
52	Spinners	71.44	29	Boarding house keepers	56.37
21	Basket makers	67.16	2,634	Farmers	56.10
388	Clergymen	64.14	149	Tailoresses	52.86
14	Surveyors	64.29	61	Merchants	52.00
101	Capitalists	64.60	14	Basket makers	49.84

No.	Males.	Av. age.	No.	Females.	Av. age.
171	Brakemen	28.04	33	Students	21.65
100	Students	23.83	47	Farmers' daughters	25.95
14	Rivermen	29.50	24	Prostitutes	26.31
67	Telegraphers	32.17	86	Clerks	29.59
73	Woodsmen	35.63	593	Teachers	31.17
172	Cigar-makers	35.47	335	Dress-makers	34.04
171	Printers	36.19	19	Hair dressers	35.13
787	Clerks	33.77	25	Musicians	34.78
24	Upholsterers	38.71	18	Artists	36.96
15	Well diggers	38.86	1,108	Domestics	36.84
1,309	Miners	37.76	171	Milliners	38.02
29	Finishers	34.46	36	Cooks	40.18
124	Farm laborers	37.18	13	Agents	38.73

TABLE 99.—*Exhibiting by classified occupations, the number, aggregate, and average age of decedents in Michigan, aged 20 years and over for the 20 years, 1870–1889; one-half year added to age of each for months and years excluded.*

Class.	Occupations,—20 years, 1870-1889.	Number of persons.	Age in years and hundredths of a year.	
			Aggregate.	Average.
	All aged 20 years and over	131,314	6,922,075.50	52.71
	All specified occupations—aged 20 years and over	122,628	6,467,332.00	52.74
	Occupations unspecified—aged 20 years and over	8,686	454,743.50	52.35
I.	Cultivators of the earth	32,972	1,964,696.50	59.59
II.	Active mechanics abroad	3,674	195,795.50	53.29
III.	Active mechanics in shops	4,669	238,961.50	51.15
IV.	Inactive mechanics in shops	2,238	117,373.00	52.45
V.	Laborers, no specified trades	11,953	531,795.50	44.49
VI.	Agents, laborers abroad, etc.	2,628	115,072.50	43.79
VII.	Seafaring men	841	35,683.00	42.43
VIII.	Soldiers	64	3,268.00	51.06
IX.	Business men	5,323	256,790.00	49.18
X.	Professional men	2,276	116,395.00	51.14
XI.	Unemployed	6,744	373,995.00	55.46
XII.	Females	57,982	2,972,250.00	51.31
I.	Cultivators of the earth	32,972	1,964,696.50	59.59
	Farmers	32,498	1,939,106.50	59.66
	Farm laborers	124	4,610.00	37.18
	Fruit growers	12	640.00	53.33
	Gardeners	272	15,964.00	58.69
	Nurserymen	13	666.50	51.28
	Retired farmers	53	3,709.50	69.99
II.	Active mechanics abroad	3,674	195,795.50	53.29
	Brick makers	37	2,011.50	54.36
	Carpenters and builders	2,658	140,814.00	52.97
	House-movers	9	510.50	56.72
	Masons	699	37,314.50	53.38
	Millwrights	112	7,064.50	63.08
	Pavers	1	21.50	21.50
	Ship-carpenters	65	3,401.50	52.33
	Stone cutters	93	4,657.50	50.08
III.	Active mechanics in shops	4,669	238,961.50	51.18
	Bakers	131	6,786.50	51.74

TABLE 99.—CONTINUED.—*Occupation of decedents, etc.*

Class.	Occupations,—20 years, 1870-1889.	Number of persons.	Age in years and hundredths of a year.	
			Aggregate.	Average.
III.	Active mechanics in shops.—*Continued.*			
	Blacksmiths	845	47,279.50	55.95
	Boiler-makers	40	1,687.00	42.17
	Book-binders	14	688.00	49.14
	Bottlers	4	114.00	28.50
	Brewers	117	5,582.50	47.71
	Broom-makers	12	583.00	48.58
	Cabinet-makers	197	10,421.50	52.90
	Carriage-makers	156	8,915.50	57.15
	Carriage-trimmers	15	668.50	44.57
	Chair-makers	3	136.00	45.33
	Confectioners	21	1,027.00	48.90
	Cooks	66	3,107.50	47.08
	Coopers	421	24,216.00	57.52
	Coppersmiths	10	595.00	59.50
	Dyers	17	838.50	49.32
	Finishers	29	999.50	34.46
	Foundrymen	17	772.00	45.41
	Gilders	8	260.00	32.50
	Glass-blowers	7	258.00	36.85
	Gunsmiths	53	3,095.50	58.41
	Machinists	306	15,152.50	49.51
	Marble workers	37	1,747.50	47.22
	Mechanics	519	26,124.50	50.33
	Millers	322	17,934.50	55.69
	Model-makers	21	1,104.50	52.60
	Molders	208	8,142.50	39.14
	Painters	554	24,132.00	43.56
	Plasterers	21	1,135.50	53.98
	Plumbers	36	1,488.50	41.34
	Potters	6	418.00	69.67
	Rope-makers	5	291.50	58.30
	Sail-makers	5	236.00	47.20
	Saw-makers	5	235.50	47.10
	Sawyers	20	782.50	39.12
	Smelters	4	144.00	36.00
	Spinners	52	3,715.00	71.44
	Stove mounters	21	768.00	36.57

TABLE 99.—CONTINUED.—*Occupations of decedents, etc.*

Class.	Occupations,—20 years, 1870-1889.	Number of persons.	Age in years and hundredths of a year.	
			Aggregate.	Average.
III.	Active mechanics in shops.—*Continued:*			
	Tanners	40	2,192.50	54.81
	Tinners	107	4,615.00	43.13
	Turners	31	1,490.50	48.08
	Unclassified	29	1,241.50	42.81
	Upholsterers	24	929.00	38.71
	Wagon-makers	81	4,879.50	60.24
	Weavers	21	1,533.00	73.00
	Wood-carvers	11	497.00	45.18
IV.	Inactive mechanics, in shops	2,238	117,373.00	52.45
	Barbers	193	7,540.00	39.07
	Basket-makers	21	1,410.50	67.18
	Cigar-makers	172	6,101.50	35.47
	Furriers	2	114.50	57.00
	Harness-makers	186	8,936.00	48.04
	Hatters	20	1,099.00	54.95
	Jewelers	127	6,272.50	49.38
	Lithographers	6	160.00	26.67
	Printers	171	6,188.50	36.19
	Shoe-makers	851	51,573.00	60.60
	Silversmiths	7	396.50	56.64
	Tailors	482	27,581.00	57.22
V.	Laborers—No special trades	11,953	531,795.50	44.49
	Choppers	8	285.00	35.63
	Ditchers	10	621.00	62.10
	Janitors	42	2,460.50	58.58
	Laborers	10,046	456,986.50	45.48
	Loggers	29	961.50	33.16
	Mill-hands	181	7,317.50	40.42
	Miners	1,309	49,440.00	37.76
	Miscellaneous	164	7,591.50	46.28
	Porters	20	831.00	41.55
	Rivermen	14	413.00	29.50
	Salt-packers	4	222.00	55.50
	Servants	38	1,482.00	39.00
	Well-diggers	15	583.00	38.86
	Woodsmen	73	2,601.00	35.63

TABLE 99.—CONTINUED.—*Occupations of decedents, etc.*

Class.	Occupations,—20 years, 1870-1889.	Number of persons.	Age in years and hundredths of a year.	
			Aggregate.	Average.
VI.	Agents, laborers abroad, etc.	2,628	115,072.50	43.79
	Agents	177	8,070.50	45.59
	Baggagemen	28	1,122.00	40.07
	Brakemen	171	4,800.50	28.04
	Butchers	316	14,862.50	47.03
	Collectors	10	492.50	49.25
	Commercial travelers	72	3,086.50	42.86
	Conductors	71	2,748.50	38.71
	Constables	14	667.00	47.64
	Draymen	98	5,160.50	52.65
	Drovers	57	2,834.50	49.72
	Engineers	112	4,972.50	44.39
	Expressmen	11	517.50	47.05
	Firemen	29	1,046.50	36.09
	Hackmen	52	2,300.50	44.24
	Hostlers	23	1,058.50	46.02
	Hunters and trappers	45	2,389.00	53.09
	Indian chief	1	104.50	104.50
	Inspectors of oil, gas, salt, etc.	8	345.00	43.13
	Jockeys	5	191.50	38.30
	Mail carriers	7	367.00	52.42
	Milk peddlers	22	1,203.00	54.68
	Overseers and superintendents	59	2,903.50	49.21
	Peddlers	181	9,339.50	51.59
	Policemen	34	1,391.00	40.91
	Railroad engineers	325	13,284.50	40.88
	Railroad expressmen	12	544.00	45.33
	Railroad firemen	56	1,204.00	21.50
	Railroad laborers	162	6,957.00	42.94
	Railroad men	103	4,307.50	41.82
	Sextons	9	509.50	56.61
	Station agents	9	314.00	34.88
	Switchmen	30	1,005.00	33.50
	Teamsters	262	11,944.50	45.58
	Toll-gate keepers	5	302.50	60.50
	Waiters	10	359.50	35.95
	Watchmen	32	1,671.50	52.23
	White-washers	10	634.50	63.45

TABLE 99.—CONTINUED.—*Occupations of decedents, etc.*

Class.	Occupations,—20 years, 1870-1889.	Number of Persons.	Age in years and hundredths of a year.	
			Aggregate.	Average.
VII.	Seafaring men	841	35,683.00	42.43
	Fishermen	146	6,870.00	47.05
	Officers	60	2,973.50	49.55
	Sailors	630	25,549.00	40.55
	United States Navy	5	290.50	58.10
VIII.	Soldiers	64	3,268.00	51.06
	Officers	7	376.50	53.79
	Soldiers	57	2,891.50	50.72
IX.	Business men	5,323	256,790.00	49.18
	Auctioneers	7	402.50	57.50
	Bankers	112	6,580.50	58.75
	Book-keepers	269	12,194.50	45.33
	Capitalists	101	6,525.00	64.60
	Clerks	787	26,576.50	33.77
	Commission merchants	25	1,440.50	57.62
	Contractors and jobbers	84	4,895.50	58.28
	Furniture dealers	11	534.50	48.59
	Grain buyers	23	1,116.50	48.54
	Grocers	243	11,979.50	49.29
	Hotel clerks	7	258.50	36.93
	Hotel keepers	341	17,935.50	52.58
	Insurance agents	84	4,479.00	53.32
	Justices of the peace	46	2,494.50	54.23
	Liquor dealers	22	1,024.00	46.55
	Liverymen	82	3,747.00	45.69
	Lumbermen	535	24,880.50	46.50
	Manufacturers	197	10,351.00	52.54
	Merchants	1,419	74,599.00	52.57
	Mill owners	9	505.50	56.17
	News agents	11	438.50	39.86
	Public officers	155	8,064.50	52.03
	Real estate dealers	97	5,958.00	61.42
	Restaurant keepers	25	1,202.50	48.10
	Salesmen	85	3,739.00	43.98
	Saloon keepers	483	21,189.00	43.87
	Undertakers	24	1,321.00	55.04
	All others	39	2,357.50	60.45

TABLE 99.—CONTINUED.—*Occupations of decedents, etc.*

ise.	Occupations,—20 years, 1870-1889.	Number of persons.	Age in years and hundredths of a year.	
			Aggregate.	Average.
X.	Professional men	2,276	116,395.00	51.14
	Actors	12	515.50	42.95
	Architects	15	689.50	45.96
	Artists	37	1,594.00	43.08
	Attorneys-at-law	327	17,381.00	53.15
	Civil engineers	41	2,394.00	58.39
	Clergymen	388	24,886.50	64.14
	Dentists	58	2,593.00	44.70
	Draughtsmen	4	299.00	74.75
	Druggists	162	7,246.00	44.73
	Editors	47	2,100.50	44.69
	Electricians	2	66.00	33.00
	Judges	4	222.00	55.50
	Lecturers	2	100.00	50.00
	Musicians	60	2,693.00	44.88
	Opticians	3	132.50	44.17
	Photographers	27	1,008.00	37.15
	Physicians and surgeons	603	33,818.00	56.08
	Stenographers	2	67.50	33.75
	Students	100	2,383.00	23.83
	Surveyors	14	900.00	64.29
	Teachers	267	11,206.50	41.97
	Telegraphers	67	2,156.00	32.17
	Veterinary surgeons	34	1,948.50	57.30
XI.	Unemployed	6,744	373,995.00	55.46
	Paupers	245	14,550.00	59.38
	Pensioners	8	569.00	71.13
	Retired	93	6,786.50	72.78
	Unemployed	2,207	132,610.00	60.08
	Unknown	4,172	218,741.00	52.43
	All others	19	738.50	38.87
II.	Females	57,932	2,972,250.00	51.31
	Actresses	4	127.00	31.75
	Agents	13	503.50	38.73
	Artists	18	665.50	36.96
	At home	377	11,431.50	30.32
	Basket makers	14	698.00	49.84

TABLE 99.—CONTINUED.—*Occupations of decedents, etc.*

Class.	Occupations,—20 years, 1870-1889.	Number of persons.	Age in years and hundredths of a year.	
			Aggregate.	Average.
XII.	Females.—*Continued:*			
	Boarding house keepers	29	1,635.00	56.37
	Book-keepers	8	303.50	37.93
	Cigarmakers	6	166.00	27.67
	Clerks	86	2,545.00	29.59
	Confectioners	6	259.00	43.17
	Cooks	36	1,446.50	40.15
	Domestics	1,108	41,821.00	38.84
	Dressmakers	385	13,108.50	34.04
	Druggists	3	154.50	51.50
	Factory employés	9	239.50	26.61
	Farmers	2,634	147,759.60	56.10
	Farmers' daughters	47	1,220.00	25.95
	Farmers' wives	855	46,530.50	54.42
	Hair dressers	19	667.50	35.13
	Hotel-keepers	54	2,501.00	46.31
	House-keepers	12,940	702,081.50	54.25
	Housewives	25,731	1,225,884.50	47.64
	Houseworkers	1,282	59,313.50	46.26
	Laborers	239	11,712.50	49 01
	Laundresses	10	418.00	41.80
	Manufacturers	9	470.50	52.28
	Matrons	95	4,983.50	52.45
	Merchants	61	3,172.00	52.00
	Millers	8	424.00	53.00
	Milliners	171	65,003.00	38.02
	Ministers	5	290.50	58.10
	Miscellaneous	160	7,428.00	46.42
	Musicians	25	869.50	34.78
	Nurses	93	5,440.00	58.49
	Paupers	101	5,836.50	57.79
	Physicians	34	2,005.50	58.98
	Prostitutes	24	631.50	26.31
	Saloon-keepers	11	543.00	49.36
	Seamstresses	263	10,576.50	40.21
	Spinsters	11	628.50	57.14
	Stenographers	2	50.00	25.00
	Students	33	714.50	21.65

TABLE 99.—CONTINUED.—*Occupations of decedents, etc.*

ass.	Occupations,—20 years, 1870-1889.	Number of Persons.	Age in years and hundredths of a year.	
			Aggregate.	Average.
XII.	Females.—*Continued.*			
	Tailoresses	149	7,877.50	52.86
	Teachers	593	18,481.00	31.17
	Telegraphers	8	195.50	24.43
	Unemployed	5,450	315,254.50	57.84
	Unknown	4,514	236,002.50	52.28
	Washerwomen	69	3,194.00	46.29
	Weavers	117	8,028.50	68.62
	Widows	13	957.50	73.65

LAWS OF MICHIGAN

CONCERNING THE

REQUIRING OF A CIVIL LICENSE TO MARRY,

THE SOLEMNIZATION OF MARRIAGES, AND THE RECORD, RETURN, AND COMPILATION OF BIRTHS, MARRIAGES, AND DEATHS; WITH SUGGESTIONS TO PERSONS AUTHORIZED TO SOLEMNIZE MARRIAGES.

CHAPTER 236, HOWELL'S ANNOTATED STATUTES, 1882.

MARRIAGE AND THE SOLEMNIZATION THEREOF.

SECTION.		SECTION.	
6209.	Who shall be capable of contracting Marriage.	6215.	Marriage, by whom solemnized.
6210.	Marriage is a civil contract.	6217.	No particular form required.
6211.	Who shall not intermarry.	6220.	Marriages not void in certain cases.
6212. 6213. 6214.	Who not to marry.	6221.	Marriages among Quakers, etc.

Chapter eighty-three of Revised Statutes of 1846, with amendments. [a]

(6209.) SECTION 1. Every male who shall have attained the full age of eighteen years, and every female who shall have attained the full age of sixteen years, shall be capable in law of contracting marriage, if otherwise competent.

(6210.) SEC. 2. Marriage, as far as its validity in law is concerned, is a civil contract to which the consent of parties capable in law of contracting is essential.

(6211.) SEC. 3. No man shall marry his mother, grandmother, daughter granddaughter, stepmother, grandfather's wife, son's wife, grandson's wife

[a] For prior Statutes relative to the solemnization of marriages, see Woodward Code, p. 42; Cass Code, p. 111. Code of 1820, p. 259; Rev. of 1827, p. 280; Laws of 1832, p. 6; Rev. of 1838, p. 329; R. S. of 1838, p. 333.

wife's mother, wife's grandmother, wife's daughter, wife's granddaughter, nor his sister, brother's daughter, sister's daughter, father's sister, or mother's sister.

(6212.) SEC. 4. No woman shall marry her father, grandfather, son, grandson, stepfather, grandmother's husband, daughter's husband, granddaughter's husband, husband's father, husband's grandfather, husband's son, husband's grandson, nor her brother, brother's son, sister's son, father's brother, or mother's brother.

(6213.) SEC. 5. No marriage shall be contracted whilst either of the parties has a former wife or husband living, unless the marriage with such former wife or husband shall have been dissolved.[b]

(6214.) SEC. 6. No insane person or idiot shall be capable of contracting marriage. All marriages heretofore contracted between white persons and those wholly or in part of African descent are hereby declared valid and effectual in law for all purposes, and the issue of such marriages shall be deemed and taken legitimate as to such issue and as to both of the parents.

(6215.) SEC. 7. Marriages may be solemnized by any justice of the peace in the county in which he was chosen, and they may be solemnized throughout the State by any minister of the gospel who has been ordained according to the usages of his denomination, and who is a pastor of any church or churches in this State, or who shall continue to preach the gospel in this State: (*Provided.*)*

(6216.) SEC. 8.*

(6217.) SEC. 9. In the solemnization of marriage, no particular form shall be required, except that the parties shall solemnly declare, in the presence of the magistrate or minister and the attending witnesses, that they take each other as husband and wife; and in every case there shall be at least two witnesses, besides the minister or magistrate, present at the ceremony.

SEC. 10.† SEC. 11.† SEC. 12.† SEC. 13.† SEC. 14.*

(6220.) SEC. 16. No marriage solemnized before any person professing to be a justice of the peace or a minister of the gospel, shall be deemed or adjudged to be void, nor shall the validity thereof be in any way affected on account of any want of jurisdiction or authority in such supposed justice or minister: *Provided*, The marriage be consummated with a full belief on the part of the persons so married, or either of them, that they have been lawfully joined in marriage.

(6221.) SEC. 17. The preceding provisions of this chapter, so far as they relate to the manner of solemnizing marriages, shall not affect marriages among the people called Friends or Quakers; nor marriages among people of any other particular denomination having, as such, any peculiar mode of solemnizing marriages; but such marriages may be solemnized in the manner heretofore used and practiced in their respective societies or denominations.

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b Act 137, Laws of 1887, prohibits divorced persons from re-marrying for a period specified in the decree, not to exceed two years.

*Repealed by Act 128, Laws of 1887.

†Repealed by Act 194, Laws of 1887, p. 298, Sec. 10.

ACT NO. 128, LAWS OF 1887.

FOR THE REQUIRING OF A CIVIL LICENSE IN ORDER TO MARRY, AND THE DUE REGISTRATION OF THE SAME, AND TO PROVIDE A PENALTY FOR THE VIOLATION OF THE PROVISIONS OF THE SAME.[a]

Persons intending marriage must obtain license from county clerk.

SECTION 1. *The People of the State of Michigan enact,* It shall be necessary for all parties, intending to be married, to obtain a marriage license from the county clerk of the county in which either the man or woman resides, and to deliver the said license to the clergyman or magistrate who is to officiate, before the marriage can be performed.*

Secretary of State to furnish forms, blanks, etc.

SEC. 2. Blank forms for marriage license and certificate, as also proper books of registration ruled for the items contained in said forms shall be prepared by the Secretary of State, and shall be furnished by him to the county clerk of the various counties of the State in quantities needed. The blank forms for license and certificate shall be made in duplicate and shall provide spaces for the entry of the following items, to wit: The full name, age, color, place of residence, place of birth, occupation, and if known, the father's name, and mother's maiden name, of each of the parties to be married; the number of times either of the parties may have been previously married; the bride's maiden name, in case she is a widow; the date of the giving of the license; the signature of the county clerk; the date and place of the marriage; the names and residences of two witnesses to the marriage, and the certification of the officiating clergyman or magistrate, that the marriage contemplated by the license has been performed by him. And the Secretary of the State shall furnish to the county clerks of the various counties of the State, blank forms of affidavit, containing the requisite allegations, under the laws of this State, of the competency of the parties to unite in the bonds of matrimony, and any party applying for license to marry, shall cause such an affidavit to be made and filed with the county clerk, as a basis for the issuing of the license; and such affidavit, together with the license, shall be made a matter of record of said clerk's office.

Form of license.

Secretary of State to furnish to county clerks blank forms of affidavits, etc.

Duty of county clerk.

SEC. 3. It shall be the duty of the county clerk, on application being made to him, to fill out the blank spaces of the license according to the sworn answer of the applicant

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[a]This act went into effect Sept. 27, 1887.

*Amended by Act No. 256, Laws of 1889, which see on the following page for amended provisions.

taken before him or some person duly authorized by law to administer oaths. If it shall appear that the parties are legally entitled to be married, the county clerk shall sign the license in certification of the fact that it is properly issued, and he shall make a correct copy thereof in the books of registration. For his services connected therewith he shall be entitled to a fee of fifty cents, to be paid by the party applying and at the time of the issuing of the license. He shall give the license, thus filled out and signed by him, together with the blank form of certificate, to the party applying for delivery to the clergyman or magistrate who is to officiate at the marriage. On the return of the license to the county clerk (as specified in section four, below), with the certificate of the clergyman, or magistrate, that the marriage has been performed, he shall record in the book of registration, in their proper places of entry, the date and place of the marriage, the names and residences of two witnesses to the marriage, and the name of the officiating clergyman or magistrate. All licenses and certificates so issued and returned shall be preserved on file in the office of the county clerk, and he shall, as often as once in three months, make a faithful report to the Secretary of State of all licenses and certificates issued and received by him.

Fees.

Licenses and certificates, where filed, etc.

SEC. 4. It shall be the duty of the clergyman or magistrate, officiating at a marriage to fill out the spaces of the certificate left blank for the entry of the time and place of the marriage, the names and residences of two witnesses, and his own signature in certification that the marriage has been performed by him. He shall separate the duplicate license and certificate and retain one-half for his own record, and he shall return the other half within ten days to the county clerk issuing the same.

Duty of officiating clergyman or magistrate.

SEC. 5. Any county clerk who shall refuse to give a license to persons properly applying and legally entitled to be married, or who shall violate any of the provisions of this act, shall be adjudged guilty of a misdemeanor, and shall be punished by a fine of not less than twenty-five dollars or more than one hundred dollars, or in default of payment thereof by imprisonment in the county jail for a term of thirty days.

Penalty for violating act by county clerk.

SEC. 6. Any clergyman or magistrate who shall join together in marriage parties who have not delivered to him a properly issued license, as provided for in this act, or who shall violate any of the provisions of this act, shall be adjudged guilty of a misdemeanor, and shall be punished by a fine of one hundred dollars, or, in default of payment thereof, by imprisonment in the county jail for a term of ninety days.

Penalty for violation, by clergyman, etc.

SEC. 7. Any person whose duty it shall be to return a marriage certificate to the county clerk, who shall neglect to return said certificate, shall be adjudged guilty of a misdemeanor, and shall be punished by a fine of not exceeding

Penalty for neglect to return certificate.

one hundred dollars or ninety days' imprisonment, or both in the discretion of the court.

False swearing in application, perjury.

SEC. 8. Any person applying for a marriage license who shall swear to a false statement therein, shall be guilty of perjury and shall be prosecuted therefor under the general laws of the State.

Filing and recording of reports.

SEC. 9. All reports of marriage, sent by the county clerks of the various counties of the State to the office of the Secretary of State, shall be preserved on file in that office, and a proper record thereof shall be made and kept.

Records of license, etc., *prima facie* evidence.

SEC. 10. The record of any license to marry, or of any marriage certificate in any county clerk's office, or a certified copy thereof, shall be *prima facie* evidence in any court or proceedings in this State, with the same force and effect as if the original were produced, both as to the facts therein contained and as to the genuineness of the signatures thereto.

Acts repealed.

SEC. 11. All other acts and parts of acts which are inconsistent herewith are hereby repealed.

ACT NO. 256 LAWS OF 1889.

AN ACT to amend section one of act number one hundred and twenty-eight, of the laws of eighteen hundred and eighty-seven, being an act entitled "An act for the requiring of a civil license in order to marry, and the due registration of the same, and to provide a penalty for the violation of the provisions of the same," and to extend the provisions of said act to non-residents of this State.

SECTION 1. *The People of the State of Michigan enact,* That section one of act number one hundred and twenty-eight of the session laws of eighteen hundred and eighty-seven, being an act entitled "An act for the requiring of a civil license in order to marry, and the due registration of the same, and to provide a penalty for the violation of the provisions of the same," approved May thirty-first, eighteen hundred and eighty-seven, be and the same is hereby amended so as to read as follows: Section amended.

SECTION 1. *The People of the State of Michigan enact,* It shall be necessary for all parties intending to be married to obtain a marriage license from the county clerk of the county in which either the man or woman resides, and to deliver the said license to the clergyman or magistrate who is to officiate, before the marriage can be performed. If both parties to be married are non-residents of the State it shall be necessary to obtain such license from the county clerk of the county in which the marriage is to be performed. Persons intending marriage must obtain license. Where non-residents must obtain license.

This act is ordered to take immediate effect.

Approved July 3, 1889.

AN ACT TO PROVIDE FOR THE REGISTRATION OF BIRTHS, MARRIAGES AND DEATHS, BEING ACT NO. 194 OF 1867, AS AMENDED BY ACT NO. 125 OF 1869.[a]

Duties of supervisors and assessors.

In 1869 returns to be made from April 5 to Dec. 31, 1868.

Return to county clerk.

In 1870 and thereafter.

Returns to include from January to December last preceding.

Statistics, how obtained.

Compensation.

Proviso relative to the city of Detroit.

Duty of common council.

Persons to be appointed by.

Compensation of persons so appointed.

(858.) SECTION 1. *The People of the State of Michigan enact,* That it shall be the duty of the supervisor of each township, and the supervisor or assessor of any city or ward therein, in this State, between the tenth day of April and the first day of June, in the year eighteen hundred and sixty-nine, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, from and including April fifth, eighteen hundred and sixty-eight, to and including December thirty-first, eighteen hundred and sixty-eight, together with the facts relative thereto, as are hereinafter provided for, and shall make an accurate return thereof to the clerk of the county in which such township or city is situated, on or before the first said day of June; and for such service shall receive ten cents for each birth and death so returned by them, to be paid by the county in which such returns are made. In the year eighteen hundred and seventy, and in each and every year thereafter, it shall be the duty of the officers above mentioned, between the tenth day of April and the first day of June, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, during the year ending on the last day of the preceding December, and shall make the return, and receive therefor the compensation above provided for: *Provided,* That in the city of Detroit, the duties required by this act to be performed by supervisors and assessors shall be performed by persons appointed by the common council, for that purpose; and it shall be the duty of the common council on or before the tenth day of April, in each year, to appoint such number of persons in each ward of said city as shall be necessary to perform said duties within the time limited by this act; and such persons shall possess all the authority conferred upon, and perform all the duties required of supervisors and assessors, by this act, within the territory assigned them, respectively by the common council, and shall receive such compensation for their services, not exceeding the sum allowed by this act to supervisors and assessors, as shall be

[a]See Act No. 128, Laws of 1867, printed herewith, for registration of marriages.

fixed by the common council, to be paid by the county of Wayne, and shall be liable to the same penalties for refusal or neglect to perform any of said duties.

How paid.

Penalties.

(859.) SEC. 2. Every justice of the peace, minister of the gospel, and all other persons authorized by law to solemnize marriages in this State, shall make a record of each marriage so solemnized by him, and every clerk or keeper of the records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, shall make a record of such marriage, together with all the facts relating to the same, as required by the third section of this act; and such justice, minister of the gospel, clerk, or other person, shall, at the time such marriage is solemnized, deliver, on demand, to either of the parties so joined in marriage, as aforesaid, a certificate of such marriage, containing all the facts in relation thereto, required by said third section of this act, and shall, within ninety days thereafter, deliver to the clerk of the county in which such marriage took place, a certified copy of such record, and, at the same time, pay to the clerk twenty-five cents for recording the same.*

Marriages to be recorded.

Marriage of Quakers.

Certificates to be furnished.

Fee for recording.

(860.) SEC. 3. It shall be the duty of the county clerks of the several counties in this State, on receiving the returns of such births, marriages, and deaths, to record the same at length in separate books, to be provided at the expense of the State by the Secretary of State, for that purpose, with proper indexes thereto. The births, marriages, and deaths shall be numbered and recorded in the order in which they are received by the clerk, and the record of marriages shall be indexed, using both the name of the bridegroom and bride. The record of birth shall state, in separate columns, the date of the birth, the name of the child (if it have any), the sex and color of the child, the place of birth, the christian and surname of both parents, the residence and nativity of the parents, the occupation of the father, and the date when the record was made: *Provided*, That in case the child has no christian name, such name shall be obtained and reported to the county clerk in the next annual report of the supervisor or assessor, and such christian name shall be distinctly designated in such report as the christian name belonging to a child previously reported, and shall be properly entered by said county clerk, in the blank left for such christian name in his book of record; and it shall be the duty of the several county clerks, on or before the tenth day of April in each year, to give to the officers required to make the said returns, lists of such children whose christian names have not been previously reported in their respective towns, cities or wards. The record of marriages shall state, in separate columns, the date and place of marriage, the christian and surname of the bridegroom and bride, and the maiden name of the bride, if a widow, the color, age, and place of

County clerks; duties of.

Births, marriages and deaths to be numbered and indexed.

Record of births shall state.

Proviso.

Record of marriages shall state.

*The provisions of this section are undoubtedly repealed by Act 128, Laws of 1887, except so far as relates to the delivering of a certificate to either of the parties joined in a marriage.

hereby empowered and authorized to administer), in relation to any birth or death within his township, city, or any ward therein, of which such person or persons may have any knowledge or information; and if any person, after being duly subpœnaed (as provided for compelling the attendance of witnesses in justices' courts), by such supervisor or assessor, for the purpose aforesaid, shall neglect or refuse to appear before such officer, or, appearing, shall refuse to be sworn and testify in relation to such matter, he shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished therefor by fine not exceeding fifty dollars, and in default of paying the same shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not exceeding ninety days; and any person who after being duly sworn as aforesaid, shall willfully make any false statement in relation to any birth or death, about which he is required to testify, shall be deemed guilty of willful and corrupt perjury: *Provided*, That no person shall be required to answer any question which will tend to criminate himself or herself upon any such examination.

Neglecting to answer a subpœna.

Penalty.

Perjury.

Proviso.

(866.) SEC. 9. In case of the refusal or neglect by any of the officers mentioned in this act, to perform any of the duties hereinbefore required of them or either of them, to be done and performed by any of the provisions herein contained, such officer shall be liable to a fine not to exceed one hundred dollars, and the costs of prosecution; and the prosecuting attorney in each county is hereby required to prosecute, in the name of the people of the State of Michigan, all persons in his county who shall willfully violate any of the provisions of this act; and the said supervisor or assessor of any township, city, or any ward therein, may be prosecuted for a misdemeanor under the section, and upon conviction, punished as therein provided for.

Neglect to perform duties.

Penalty.

Misdemeanor.

SUGGESTIONS TO PERSONS AUTHORIZED TO SOLEMNIZE MARRIAGES IN MICHIGAN.

A thorough knowledge of the law concerning the solemnization and return of marriages in Michigan is necessary to a correct performance of the duties of persons authorized to solemnize marriages.

The most frequent violation of the law is in the marriage of persons *under the lawful age*, which is: for males eighteen (18) years, and for females sixteen (16) years. See Section (6209), Howell's Annotated Statutes, 1882, printed on a previous page. The penalty for the violation of this provision is a forfeit of not exceeding one hundred (100) dollars. See Sec. 6, Act 128, Laws of 1887, printed on a previous page.

In the record and return of marriages, every item specified in the law should be carefully ascertained, and correctly and plainly written. No item should be omitted, and nothing taken for granted, as is often the case with the fact as to COLOR of persons married.

In recording the BIRTHPLACE of each, the State or country should be distinctly given in each case. This will avoid the difficulty of ascertaining the nativity of persons whose birthplace is returned "Holland," "Hanover," "Denmark," "Wales," "Paris," etc.,—names of places which may be either in the United States or Europe. If such or similar names occur, please state whether it is Holland, *Michigan*, or Holland, *Europe*, and so for each case. Never return the birthplace "America," as we cannot know whether it is in the United States, and are therefore compelled to compile it with the "Unkown."

Blanks for the return of marriages to the county clerk will not be required under the new law, as the return of the license with the certificate properly filled out will constitute the proper return to the county clerk.

The license to marry can only be procured from the several county clerks, but the affidavit necessary to procure the same may be made before any person authorized to administer oaths, and blank affidavits can be had from any county clerk or from the office of the Secretary of State.

TWENTY-FOURTH ANNUAL REPORT

RELATING TO THE REGISTRY AND RETURN OF

BIRTHS, MARRIAGES AND DEATHS

IN MICHIGAN

FOR THE YEAR 1890

BY THE

SECRETARY OF STATE

OF THE

STATE OF MICHIGAN

BY AUTHORITY

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STATE OF MICHIGAN.

DEPARTMENT OF STATE,
OFFICE OF THE SECRETARY,
June 6, 1892.

HON. EDWIN B. WINANS, *Governor of Michigan:*

SIR—The Twenty-fourth Annual Report of Births, Marriages and Deaths, for the State of Michigan, for the year ending December 31, 1890, is herewith submitted, according to the requirements of the law.

The general plan of the work will be found similar to the reports of previous years, as the tables are believed to be as complete as need be, while the results of the different compilations are displayed so that they may be as easily comprehended as possible.

All of the three classes, births, marriages and deaths, show an increase for the year 1890 as compared with 1889. For that year the returns were as follows: Births, 49,272; marriages, 18,300; deaths, 20,315. For this report the returns show 52,306 births, 18,577 marriages, and 21,642 deaths. The increase is found almost entirely in the large cities, and a large proportion of it in Wayne county.

The reports from the counties of the State were about as complete as usual, with the exception of Iron county, from which no returns could be obtained, although several efforts were made. The county clerk could not obtain any returns from the supervisors. The other towns and villages from which no returns of births or deaths were received are given in table 29 and 59.

The facts given in the following pages are the results of [illegible] careful labor, and are of much interest and importance to all, [illegible] so to sanitarians and those interested in statistical work.

It was expected that the census of 1890 would be complete [illegible]

could be used for the computations in this work. The latest advance sheets of the census work were very kindly furnished in manuscript by the superintendent of the census, Honorable Robert P. Porter, but as the completed tables of the population of the State by counties, towns and villages, and considered as to sex, age, color and nativity, were needed for this work, the State census of 1884 was of necessity used again.

Much care has been given to the work, and it is believed the results are as correct as possible.

Respectfully,

R. R. BLACKER,
Secretary of State.

BIRTHS, MARRIAGES AND DEATHS

IN MICHIGAN

DURING THE YEAR 1890.

In this first division of Births, Marriages and Deaths is given a general and condensed view of the work which is treated more in detail in the following pages. Much interesting and valuable information may be found in this part of the report.

In the table marked Exhibit A may be seen the number of marriages, births and deaths for four years, with a ten years average. The number actually returned, and the number as corrected by the method used for supplying omissions in the returns are given in this table. As will be seen by referring to this table there has been an increase in all returns for 1890 as compared with 1889.

EXHIBIT A.—*Births, marriages and deaths, returned as having occurred in Michigan during each of the years 1887 to 1890, and the average for ten years, 1880–1889, as returned and corrected for omissions in the enumeration.*

		1887.	1888.	1889.	1890.	Average 10 years, 1880–1889.
As returned.	Marriages	a 17,294	a 17,297	a 18,316	18,577	16,408
	Births	46,226	48,952	49,272	52,306	41,598
	Deaths	19,482	21,764	20,315	21,642	18,312
	Excess of births over deaths	26,744	27,188	28,957	30,664	23,286
As corrected for omissions.	Births	58,493	60,120	65,224	60,555	56,397
	Deaths	27,251	26,043	27,461	23,789	25,839
	Excess of births over deaths	31,242	34,077	37,763	36,766	30,558

a Corrected up to April 2, 1891.

In 1884, the latest available census, Michigan had a population of 1,853,658. With this number and the returns found in the preceding table, the birth rate, marriage rate and death rate for the year were as follows:

Birth rate	27.75
Marriage rate	10.02
Persons married	20.04
Death rate	11.86

Exhibit B gives various comparisons of births, marriages and deaths to the population of the State. The natural daily increase of population as shown by births and deaths as returned was 83 for 1890, while for 1889 it was 79. One child was born for every 35 persons in 1890, and in 1889 one for every 37 persons. One marriage was consummated for every 99 persons in 1890, and one for every 101 in 1889. One death occurred for every 85 persons in 1890 and one for every 91 persons in 1889.

EXHIBIT B.—*Statements concerning births, marriages and deaths in Michigan during the years 1886-1890, inclusive.*

	1886.	1887.	1888.	1889.	a 1890.
Inhabitants represented by returns of marriages to one marriage	107.90	107.19	107.12	101.29	99.72
In population represented by marriages, males to one marriage	56.72	56.34	56.31	53.24	52.45
In population represented by marriages, females to one marriage	51.17	50.83	50.80	48.03	47.12
Inhabitants represented by births to each child returned	44.98	39.94	37.74	37.42	35.16
Inhabitants, males to each male child returned	45.54	40.37	38.02	37.78	35.10
Inhabitants, females to each female child returned	44.51	39.58	37.45	37.10	35.34
Inhabitants represented by deaths to one death	101.61	94.79	84.31	90.91	85.12
Inhabitants, males to one death of male	99.87	91.86	82.73	88.34	82.00
Inhabitants, females to one death of female	104.34	98.70	87.37	94.25	89.43
Deaths, males to 100 females	115.75	119.00	117.00	118.00	117.00
Births, males to 100 females	108.28	109.00	109.00	108.73	117.06
Total population of State, males to 100 females	110.85	110.85	110.85	110.85	110.85
Births to one death	2.26	2.37	2.25	2.43	2.41
Births, males to one death of male	2.19	2.27	2.18	2.33	2.33
Births, females to one death of female	2.34	2.49	2.33	2.53	2.53
Children born of which the sex was unknown or not stated	63.00	70.00	25.00	48.00	54.48
Decedents of which the sex was unknown or not stated	60.00	42.00	18.00	34.00	30.90
Natural daily increase of population as per births and deaths returned	68.00	73.00	74.00	79.33	83.80
Natural daily increase of population where returns of births and deaths are corrected for omissions in the enumeration	97.00	86.00	94.00	172.00	100.70

a In computing statements for this column the population of 1884 was used.

The various rates to the population of several states and countries are given in the following table, which is taken from the report of Massachusetts for 1890. A comparison of these per cents with those of Exhibit B will prove of considerable interest.

In Exhibit C the returns of births, marriages and deaths for 21 years are given, with the total and average for each.

The average number of births, marriages and deaths for the year, quarter, month, week and day as first returned, and as corrected for probable omissions, may be seen in Exhibit D. It shows that by actual returns 51 marriages, 143 births and 84 deaths occurred every day.

Rates of births, marriages and deaths in various states and countries for the years 1888 and 1889.

States and countries.	1888.				1889.			
	Birth rate.	Death rate.	Excess of birth rate over death rate.	Marriage rate.	Birth rate.	Death rate.	Excess of birth rate over death rate.	Marriage rate.
Massachusetts	29.9 a 26.2	19.9 a 19.2	6.00 a 7.00	18.6 a 18.7	26.2 b 25.7	19.2 b 19.4	7.0 b 6.3	18.7 b 18.6
New Hampshire	18.6	19.7	1.1	19.5	18.4	17.8	0.6	19.2
Rhode Island	24.3	20.4	3.9	18.7	.....	.....	.....	.....
Austria	37.9	29.2	8.7	15.8	37.9	27.3	10.6	15.0
Belgium	29.1	20.1	9.0	14.7	29.5	19.1	10.4	14.5
Denmark	31.7	19.7	12.0	14.2	13.3	18.6	12.7	14.2
England and Wales	30.6	17.8	12.8	14.2	30.5	17.9	12.6	14.7
France	23.1	21.8	1.3	14.4	23.0	20.5	2.5	14.2
German Empire	36.7	23.8	12.9	15.7	36.5	23.8	12.7	16.1
Hungary	.....	.....	.....	.....	.....	.....	.....	.....
Ireland	22.9	18.0	4.9	8.4	22.8	17.5	5.3	9.1
Italy	36.6	26.8	9.8	15.6	37.3	24.9	12.4	15.0
Netherlands	33.7	20.4	13.3	13.8	33.2	20.1	13.1	13.9
Norway	30.8	16.9	13.9	12.3	29.7	17.4	12.3	12.4
Prussia	37.7	23.0	14.7	16.1	37.2	23.2	14.0	16.4
Scotland	30.5	17.6	12.9	12.5	30.1	18.0	12.1	12.9
Sweden	.....	.....	.....	.....	.....	.....	.....	.....
Switzerland	27.7	19.9	7.8	14.1	27.6	20.3	7.3	14.1

a 1889. b 1890.

EXHIBIT C.—*The number of births, marriages, deaths and excess of births over deaths as returned for each of the years 1870–1890.*

Years.	Births.	Marriages.	Deaths.	Excess of births over deaths.
1870	26,663	9,160	10,766	15,897
1871	25,992	10,181	9,728	16,264
1872	27,993	9,882	13,371	14,622
1873	34,608	10,574	14,258	20,350
1874	31,151	11,041	12,500	18,651
1875	31,958	11,055	11,990	19,968
1876	34,235	10,858	12,576	21,659
1877	33,895	11,009	12,919	20,476
1878	35,162	12,221	12,766	22,396
1879	34,122	13,225	14,407	19,715
1880	35,323	14,149	16,102	19,221
1881	34,749	14,847	19,238	15,511
1882	37,026	16,178	16,425	20,601
1883	40,809	16,420	16,906	23,903
1884	40,408	15,002	18,056	22,352
1885	42,119	15,016	16,646	25,473
1886	41,095	16,631	18,187	22,908
1887	46,226	17,050	19,482	26,744
1888	48,952	17,233	21,764	27,188
1889	49,272	18,300	20,315	28,957
1890	52,306	18,577	21,642	30,664
Total	783,564	288,609	330,044	453,520
Average	57,312	13,743	15,716	21,596

EXHIBIT D.—*The number of marriages, births, deaths, and excess of births over deaths in Michigan during the year 1890, the average number and excess for specified periods of time within the year as returned, and the same for births and deaths as corrected for omissions in the enumeration.*

	Periods of time.—1890.	Marriages, 1890.	Births, 1890.	Deaths, 1890.	Excess of births over deaths.
As returned.	Year 1890 a	18,577	52,306	21,642	30,664
	Quarter	4,644	13,076	5,410	7,666
	Month	1,548	4,359	1,803	2,556
	Week	357	1,006	416	590
	Day	51	143	59	84
Births and deaths as corrected.	Year 1890 b		60,555	23,789	36,766
	Quarter		15,138	5,947	9,191
	Month		5,046	1,982	3,064
	Week		1,165	457	708
	Day		166	65	101

a Unknown month included.
b Corrected as if enumerated in month of occurrence.

The natural increase of population, the excess of births over deaths, is shown by months for the years 1885 and 1889 inclusive. May shows the most increase, the births exceeding the deaths by 2,864. In the ten years average May also is the highest, having 2,510 more births than deaths. Exhibit F, the last table of the division, gives the number of births and deaths, by sex, with the excess of births over deaths.

EXHIBIT E.—*Showing by sex, the population in 1884, the number of marriages, births, and deaths, and the excess of births over deaths, in Michigan, during the year 1890.*

State and counties.	Population, 1884.				Marriages, 1890.	Births, 1890.				Deaths, 1890.				Excess of births over deaths.			
	Total.	Sex.				Total.	Sex.			Total.	Sex.			Total.	Sex.		
		Males.	Females	Unknown.			Males.	Females	Unknown.		Males.	Females	Unknown.		Males.	Females	Unknown.
State	1,853,658	974,424	879,028	206	18,577	52,806	27,523	24,687	96	21,642	11,801	9,771	70	30,664	15,722	14,916	26
Alcona	4,028	2,428	1,600	.....	25	105	53	51	1	15	12	2	1	90	41	49	.....
Alger	a	a	a	.....	6	18	8	10	.....	8	3	5	.....	10	5	5	.....
Allegan	38,666	20,052	18,614	.....	346	618	324	291	3	299	156	140	3	319	168	151	.....
Alpena	12,683	6,990	5,693	.....	125	316	165	151	.....	114	57	57	.....	202	108	94	.....
Antrim	8,761	4,736	4,025	.....	69	174	109	64	1	58	30	27	1	116	79	37	.....
Arenac	4,027	2,319	1,708	.....	41	134	61	73	.....	41	22	19	.....	93	39	54	.....
Baraga	3,039	1,819	1,220	.....	34	87	50	37	.....	43	22	21	.....	44	28	16	.....
Barry	24,102	12,507	11,595	.....	256	384	195	188	1	158	74	84	.....	226	121	104	1
Bay	51,221	28,215	23,006	.....	507	1,581	787	792	2	493	279	213	1	1,088	508	579	1
Benzie	4,389	2,349	2,040	.....	42	107	51	56	.....	59	24	35	.....	48	27	21	.....
Berrien	37,776	19,225	18,551	.....	432	699	355	342	2	343	183	159	1	656	172	183	1
Branch	27,661	14,042	13,619	.....	273	361	181	180	.....	284	152	132	.....	77	29	48	.....
Calhoun	41,585	21,297	20,285	3	393	592	321	269	2	343	173	168	2	249	148	101	.....
Cass	21,202	10,886	10,316	.....	184	312	159	145	8	170	93	69	8	142	66	76	.....
Charlevoix	9,275	5,030	4,245	.....	66	163	80	83	.....	77	40	37	.....	86	40	46	.....
Cheboygan	9,946	5,503	4,443	.....	100	319	167	152	.....	97	54	43	.....	222	113	109	.....
Chippewa	8,422	4,746	3,676	.....	108	208	111	92	5	67	42	24	1	141	69	68	4
Clare	5,549	3,251	2,298	.....	64	114	71	43	.....	47	23	24	.....	67	48	19	.....

Clinton	27,135	14,034	13,101	.....	208	476	249	226	1	234	127	106	1	242	122	120	.....
Crawford	2,389	1,381	1,008	.....	27	47	27	20	.....	16	12	4	.....	31	15	16	.....
Delta	9,992	5,876	4,116	.....	167	472	215	257	.....	151	80	71	.....	321	135	186	.....
Eaton	31,802	16,010	15,592	.....	274	435	224	206	5	287	130	155	2	148	94	51	3
Emmet	7,944	4,095	3,849	.....	83	104	53	50	1	68	46	22	.....	36	7	28	1
Genesee	38,776	19,782	18,994	.....	368	479	238	239	2	301	160	141	.....	178	78	98	2
Gladwin	1,539	899	640	.....	30	18	9	9	.....	3	1	2	.....	15	8	7	.....
Gogebic	a	a	a	.....	159	227	144	83	.....	85	46	39	.....	142	98	44	.....
Grand Traverse	12,092	6,522	5,570	.....	124	207	114	93	.....	85	48	37	.....	122	66	56	.....
Gratiot	24,049	13,204	11,845	.....	243	407	206	200	1	159	84	74	1	248	122	126	.....
Hillsdale	31,686	15,911	15,775	.....	260	349	178	171	.....	280	151	128	1	69	27	43	-1
Houghton	26,146	14,168	11,978	.....	404	1,279	654	620	5	326	188	136	2	953	466	484	3
Huron	24,521	12,934	11,585	2	186	738	389	347	2	227	130	97	.....	511	259	250	2
Ingham	34,939	17,917	17,022	.....	328	595	309	286	.....	373	181	192	.....	222	128	94	.....
Ionia	32,559	17,057	15,502	.....	299	433	215	217	1	243	116	126	1	190	99	91	.....
Iosco	10,602	6,060	4,542	.....	141	305	146	158	1	129	83	44	2	176	63	114	-1
Iron	a	a	a	.....	54	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Isabella	16,011	8,597	7,414	.....	154	447	227	220	.....	147	75	72	.....	300	152	148	.....
Jackson	45,232	23,385	21,847	.....	367	586	295	291	.....	467	251	216	.....	119	44	75	.....
Kalamazoo	35,281	17,875	17,406	.....	339	632	321	311	.....	413	207	206	.....	219	114	105	.....
Kalkaska	4,493	2,470	2,033	.....	55	78	44	34	.....	28	8	20	.....	50	36	14	.....
Kent	48,600	43,467	41,133	.....	1,096	2,414	1,252	1,150	12	1,314	729	577	8	1,100	523	573	4
Keweenaw	4,667	2,551	2,116	.....	25	113	57	56	.....	45	27	18	.....	68	30	38	.....
Lake	7,539	4,528	3,011	.....	68	41	21	20	.....	16	8	8	.....	25	13	12	.....
Lapeer	30,057	15,568	14,489	.....	248	432	235	197	.....	201	102	99	.....	231	133	98	.....
Leelanaw	7,128	3,842	3,286	.....	68	214	117	97	.....	68	38	30	.....	146	79	67	.....
Lenawee	49,584	24,916	24,668	.....	435	600	307	292	1	447	230	215	2	153	77	77	-1

[a] Or anized since census was taken.

EXHIBIT E.—*Continued.*

Counties.	Population, 1884.				Marriages, 1890.	Births, 1890.				Deaths, 1890.				Excess of births over deaths.			
	Total.	Sex.				Total.	Sex.			Total.	Sex.			Total.	Sex.		
		Males.	Females	Un-known.			Males.	Females	Un-known.		Males.	Females	Un-known.		Males.	Females	Un-known.
Livingston	21,568	11,254	10,314	.....	180	269	142	127	.....	130	65	65	.....	139	77	62	.....
Luce	a	a	a	.....	25	48	25	23	.....	2	2	.....	.....	46	23	23	.....
Mackinac	5,171	2,048	2,223	.....	84	94	52	42	.....	18	7	10	1	76	45	32	-1
Macomb	31,293	15,978	15,315	.....	255	609	300	309	.....	324	168	156	.....	285	132	153	.....
Manistee	19,875	10,879	8,996	.....	200	668	350	311	7	241	129	106	6	427	221	205	1
Maniton	1,198	547	456	195	7	15	6	9	.....	2	1	1	.....	13	5	8	.....
Marquette	31,397	17,580	13,817	.....	441	1,234	655	579	.....	488	331	157	.....	746	324	422	.....
Mason	13,221	7,232	5,989	.....	158	424	231	193	.....	119	67	52	.....	305	164	141	.....
Mecosta	20,597	11,283	9,314	.....	192	346	185	161	.....	147	80	67	.....	199	105	94	.....
Menominee	19,120	11,488	7,632	.....	269	1,148	631	512	5	312	186	121	5	836	445	391	.....
Midland	8,776	4,728	4,048	.....	102	184	89	95	.....	73	44	29	.....	111	45	66	.....
Missaukee	3,386	2,036	1,350	.....	35	157	89	68	.....	54	31	23	.....	103	58	45	.....
Monroe	33,353	17,186	16,167	.....	297	632	344	288	.....	274	131	141	2	358	213	147	-2
Montcalm	35,356	18,774	16,581	1	270	521	286	235	.....	236	133	103	.....	285	153	132	.....
Montmorency	845	494	351	.....	6	37	24	13	.....	5	3	2	.....	32	21	11	.....
Muskegon	37,554	20,522	17,029	3	342	1,026	551	472	3	436	230	204	2	590	321	268	1
Newaygo	18,996	10,684	8,312	.....	187	347	182	163	2	120	76	43	1	227	106	120	1
Oakland	41,100	20,821	20,279	.....	303	505	269	235	1	394	220	174	.....	111	49	61	1
Oceana	14,519	7,859	6,660	.....	131	250	136	112	2	101	60	41	.....	149	76	71	2
Ogemaw	3,637	2,041	1,596	.....	40	88	45	42	1	34	20	14	.....	54	25	28	1
Ontonagon	4,836	3,329	1,507	.....	26	64	30	34	.....	27	22	5	.....	37	8	29	.....

Oscoda	1,374	798	576	.....	18	20	12	8	.....	5	4	1	.....	15	8	7	.....
Otsego	3,906	2,323	1,683	.....	51	45	25	20	.....	32	13	19	.....	13	12	1	.....
Ottawa	36,225	18,970	17,255	.....	273	846	444	402	.....	330	182	146	2	516	262	256	-2
Presque Isle	4,064	2,168	1,896	.....	32	117	52	65	.....	27	15	12	.....	90	37	53	.....
Roscommon	2,588	1,813	775	.....	14	37	20	17	.....	10	7	3	.....	27	13	14	.....
Saginaw	74,795	41,588	33,207	.....	680	2,028	1,039	988	1	1,082	574	456	2	996	465	532	-1
Sanilac	29,583	15,578	14,005	.....	189	741	396	344	1	229	105	124	.....	512	291	220	1
Schoolcraft	3,846	2,568	1,278	.....	52	60	26	34	.....	44	23	21	.....	16	3	13	.....
Shiawassee	28,078	14,731	13,347	.....	284	385	197	188	.....	209	103	106	.....	176	94	82	.....
St. Clair	46,783	24,058	22,733	2	495	989	484	500	5	449	259	186	4	540	225	314	1
St. Joseph	26,277	13,295	12,982	.....	229	374	177	195	2	262	139	121	2	112	38	74	.....
Tuscola	30,726	16,126	14,600	.....	271	541	273	268	.....	250	130	120	.....	291	143	148	.....
Van Buren	30,341	15,377	14,964	.....	260	522	269	253	.....	314	163	150	1	208	106	108	-1
Washtenaw	41,694	21,067	20,627	.....	329	546	287	258	1	378	214	164	.....	168	73	94	1
Wayne	188,966	94,492	94,474	.....	2,266	17,372	9,374	7,990	8	5,505	3,056	2,445	4	11,867	6,318	5,545	4
Wexford	10,518	5,732	4,786	.....	130	231	135	96	.....	73	40	33	.....	158	95	63	.....

* Organized since census was taken.

		Total.[a]	Months.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1885	Births	42,083	2,702	2,987	3,533	3,618	3,730	3,346	3,567	3,924	3,995	3,624	3,363	3,689
	Deaths	16,590	1,131	1,267	1,421	1,474	1,286	1,185	1,363	1,486	1,559	1,492	1,362	1,564
	Excess of births	25,493	1,576	1,720	2,112	2,144	2,444	2,161	2,204	2,438	2,436	2,132	2,001	2,125
1886	Births	44,044	2,617	2,858	3,456	3,640	3,498	3,352	3,598	3,781	3,707	3,540	3,270	3,727
	Deaths	18,127	1,065	1,093	1,462	1,396	1,376	1,281	1,461	1,887	1,889	1,761	1,615	1,841
	Excess of births	22,917	1,552	1,765	1,994	2,244	2,122	2,071	2,137	1,894	1,818	1,779	1,655	1,886
1887	Births	46,166	3,132	3,150	3,987	3,896	3,960	3,666	4,011	4,266	4,331	3,944	3,765	4,058
	Deaths	19,416	1,249	1,274	1,535	1,599	1,472	1,405	1,915	2,055	1,916	1,699	1,554	1,743
	Excess of births	26,750	1,883	1,876	2,452	2,297	2,488	2,261	2,096	2,211	2,415	2,245	2,211	2,315
1888	Births	48,907	3,531	3,516	4,099	3,953	4,214	4,133	4,223	4,514	4,415	4,305	3,811	4,193
	Deaths	21,698	1,416	1,585	1,865	1,909	1,858	1,627	1,789	2,169	1,978	1,848	1,642	2,012
	Excess of births	27,209	2,115	1,931	2,234	2,044	2,356	2,506	2,434	2,345	2,437	2,457	2,169	2,181
1889	Births	49,272	3,340	3,104	4,001	4,057	4,238	4,050	4,252	4,526	4,382	4,292	4,331	4,646
	Deaths	20,315	1,409	1,266	1,676	1,585	1,454	1,389	1,677	2,214	2,025	1,894	1,712	1,951
	Excess of births	28,957	1,931	1,838	2,325	2,472	2,784	2,661	2,575	2,312	2,357	2,398	2,619	2,695
1890	Births	52,306	4,130	3,718	4,356	4,407	4,568	4,313	4,397	4,651	4,517	4,219	4,223	4,765
	Deaths	21,611	1,745	1,599	1,776	1,807	1,704	1,633	1,849	2,032	1,892	1,808	1,739	2,027
	Excess of births	30,695	2,385	2,119	2,580	2,600	2,864	2,680	2,548	2,619	2,625	2,411	2,484	2,738
Monthly average of excess for 1885 to 1890, inclusive		27,004	1,940	1,845	2,283	2,300	2,510	2,390	2,332	2,303	2,348	2,237	2,187	2,323

[a] Unknown month excluded.

BIRTHS, 1890.

The number of births returned for 1890 was 52,306. For 1889, 49,272 were returned, an increase of 3,034. As there was an increase of about 5,000 in Wayne county it will be seen that some other counties must have returned fewer births than for the preceding year. Iron county made no returns, which would make some difference.

The table following shows for several years the per cent of births as returned, and the per cent added for correction for probable omissions. It will be seen that 86.38 per cent of births were returned which is the highest rate for any year of the table, while the per cent added is, of course, lower than for any other year, and the ten year average shows a corresponding change.

Years.	Per cent of births returned.	Per cent of births added as correction for omissions.
1881	69.76	43.35
1882	74.31	34.57
1883	72.57	37.79
1884	73.24	36.54
1885	72.57	37.80
1886	67.92	47.24
1887	79.01	26.57
1888	81.41	22.84
1889	75.46	38.17
1890	86.38	19.00
Average for 10 years	75.26	34.39

The inhabitants of Michigan represented by births for 1890 were 1,839,137. The total population as given by the census of the State in 1884 was 1,853,658. Thus there were at least 14,521 persons not represented by returns of births. The number not represented in 1889 was 9,717. The birth rate for 1890 was 2.84 for every 100 inhabitants. The corrected returns, 3.28.

Sex.	Inhabitants in 1884 represented by births in 1890.	Births as returned.	Births corrected for omissions in enumerating.	Per cent of births to inhabitants.	
				Births as returned.	Births corrected for omissions.
Total	1,839,137	52,306	60,555	2.84	3.2[illegible]

The Massachusetts report for 1890 gives the following figures of birth rates:

Eastern Europe (Russia)	49.4 to 1,000
Central Europe	37.6 to 1,000
Southern Europe	34.0 to 1,000
Northwestern Europe	32.0 to 1,000

The highest and lowest birth rate for several foreign countries are given below:

Highest.		Lowest.	
1. Russia	49.6	5. Sweden	31.4
2. Croatia	45.8	4. Switzerland	31.9
3. Hungary	45.0	3. Greece	28.4
4. Servia	43.6	2. Ireland	26.2
5. Wurtermberg	41.8	1. France	23.8
Average	45.0	Average	28.5

The birth rate for Michigan is given in the following table:

Periods of time.	Births as returned.	Corrected for omissions.	Corrected with 3.39 per cent.
Per quarter	13,076	15,138	17,573
Per month	4,359	5,046	5,857
Per week	1,006	1,165	1,351
Per day	143	166	192

The births by quarters as returned and as corrected are given for several years in Table 1. The third quarter as usual has the highest number, though for 1889 the fourth contained the most.

'ABLE 1.—*Births by quarters of the year for the years 1887–1890, and the average for ten years, 1880–1889.*

Totals and months with which quarters end.	1887.		1888.		1889.		1890.		Average for 10 years, 1880–1889.	
	Numb'r	Per cent of total.	Numb'r	Per cent of total.	Numb'r	Per cent of total.	Numb'r	Per cent of total.	Numb'r	Per cent of total.
Totals	46,226	100.00	48,952	100.00	49,272	100.00	52,306	100.00	41,598	100 00
returned, March	10,269	22.21	11,146	22.77	10,445	21.20	12,204	23.33	9,124	21.93
June	11,522	24.93	12,300	25.12	12,345	25.05	13,288	25.41	10,383	24.96
September	12,608	27.27	13,152	26.87	13,160	26.71	13,565	25.93	11,243	27.03
December	11,767	25.46	12,309	25.15	13,269	26.93	13,207	25.45	10,804	25.97
Unknown	60	.13	45	.09	53	.11	42	.08	44	.11
Average a	11,557	25.00	12,238	25.00	12,318	25.00	13,077	25.00	10,400	25.00
Totals	58,493	100.00	60,120	100.00	65,224	100.00	60,555	100.00	56,397	100.00
omissions, March	14,222	24.31	14,824	24.66	15,408	23.62	15,251	25.18	13,842	24.54
June	15,096	25.81	15,553	25.87	17,058	26.16	15,814	26.12	14,711	26.08
September	15,528	26.55	17,759	26.21	16,914	25.93	15,327	25.31	14,746	26.15
December	13,587	23.23	13,939	23.19	15,791	24.21	14,121	23.32	13,054	23.15
Unknown	60	.10	45	.07	53	.08	42	.07	44	.08
Average a	14,623	25.00	15,030	25.00	16,306	25.00	15,139	25.00	14,099	25.00

a The number in unknown quarter of year included.

Table 2 contains the original returns of births arranged by months the highest numbers first. As for 1889, December is first and February last on the list. The returns for the last months of the year are always better than for the first months on account of the length of time intervening between the time of birth and the time of the collection of the data.

TABLE 2.—*Births during the years 1888–1890, according to the returns, the average for ten years, 1880–1889, showing number and percentage, by months in order of greatest first.*

Order.	1888.			1889.			1890.			Average for 10 years, 1880–1889.		
	Months.	Number.	Per cent of total.	Months.	Number.	Per cent of total.	Months.	Number.	Per cent of total.	Months.	Number.	Per cent of total.
	Total	48,952	100.00	Total	49,272	100.00	Total	52,306	100.00	Total	41,598	100.00
1	Aug.	4,514	9.22	Dec.	4,646	9.43	Dec.	4,765	9.11	Aug.	3,857	9.26
2	Sept.	4,415	9.02	Aug.	4,526	9.19	Aug.	4,651	8.89	Sept.	3,801	9.13
3	Oct.	4,305	8.79	Sept.	4,382	8.80	May	4,568	8.73	Dec.	3,735	8.96
4	July	4,223	8.63	Nov.	4,331	8.79	Sept.	4,517	8.64	Oct.	3,624	8.77
5	May	4,214	8.61	Oct.	4,292	8.71	Apr.	4,407	8.43	July	3,585	8.61
6	Dec.	4,193	8.57	July	4,252	8.63	July	4,397	8.41	May	3,559	8.53
7	June	4,133	8.44	May	4,238	8.60	Mar.	4,356	8.32	Apr.	3,474	8.35
8	Mar.	4,099	8.37	Apr.	4,057	8.23	June	4,313	8.25	Mar.	3,457	8.31
9	Apr.	3,953	8.08	June	4,050	8.22	Nov.	4,223	8.07	Nov.	3,445	8.24
10	Nov.	3,811	7.79	Mar.	4,001	8.22	Oct.	4,219	8.07	June	3,350	8.03
11	Jan.	3,531	7.21	Jan.	3,340	6.78	Jan.	4,130	7.90	Feb.	2,871	6.91
12	Feb.	3,516	7.18	Feb.	3,104	6.29	Feb.	3,718	7.10	Jan.	2,796	6.75
	Unk.	45	.09	Unk.	53	.11	Unk.	42	.08	Unk.	44	.10
	Av. a.	4,079	8.33	Av. a.	4,106	8.33	Av. a.	4,359	8.33	Av. a.	3,466	8.33

a Including births in unknown months.

Table 3 contains the same set of returns as Table 2, but with the corrections for omissions added, which changes the order of the months somewhat.

TABLE 3.—*Births during the years 1888-1890, and the average for ten years, 1880-1889, as corrected for omissions in the enumeration, exhibiting the number and percentage, by months, in order of greatest first.*

Order.	1888.			1889.			1890.			Average for 10 years, 1880-1889.		
	Months.	Number.	Per cent of total.	Months.	Number.	Per cent of total.	Months.	Number.	Per cent of total.	Months.	Number.	Per cent of total.
	Total.	60,120	100 00	Total...	65,224	100.00	Total...	60,555	100.00	Total.	56,397	100.00
1	Aug...	5,410	9.00	May	5,856	8.98	May	5,436	8.98	Mar...	5,135	9.10
2	Mar...	5,366	8.93	Aug.....	5,822	8.93	Mar.....	5,358	8.85	Aug...	5,062	8.99
3	May ..	5,330	8.87	Mar.....	5,783	8.87	Apr.	5,332	8.81	Apr. ..	5,045	8.93
4	Sept. .	5,194	8.64	Apr.....	5,735	8.79	Aug.....	5,256	8.68	May ..	5,039	8.92
5	July ..	5,155	8.57	July	5,605	8.59	Jan.	5,245	8.66	Sept. .	4,855	8.61
6	June .	5,136	8.54	Sept. ...	5,487	8.41	July	5,057	8.35	July ..	4,829	8.56
7	Apr. ..	5,087	8.46	June....	5,467	8.38	June....	5,046	8.33	June .	4,627	8.19
8	Oct. ..	4,969	8.27	Dec.....	5,385	8.26	Sept. ...	5,014	8.28	Oct. ..	4,530	8.04
9	Jan. ..	4,774	7.95	Oct.	5,248	8.04	Dec.....	5.003	8.26	Dec. ..	4,385	7.77
10	Feb. ..	4,680	7.78	Nov.....	5,158	7.91	Feb.	4,648	7.67	Feb. ..	4,366	7.76
11	Dec...	4,655	7.74	Jan.	5,040	7.73	Oct.	4,599	7.60	Jan. ..	4,341	7.71
12	Nov...	4,315	7.18	Feb.	4,585	7.03	Nov.....	4,519	7.46	Nov...	4,139	7.34
	Unk. .	45	.07	Unk. ...	53	.08	Unk. ...	42	.07	Unk. .	44	.08
	Av. a..	5,010	8.33	Av. a....	5,431	8.33	Av.	4,658	8.33	Av. ...	3,466	8.33

PROPORTION OF THE SEXES.

The number of births by months for each county in the State is given in Table 4. The excess of males born over females is greater for 1890 than it was for 1889, being 117 males to every 100 females. For 1889 about 109 males were born to every 100 females. Births of which sex was not stated, 96. For 1889, the number was 53, and for 1888, 25.

TABLE 4.—*Exhibiting, by counties and by sex, the number of births returned j the year, and in each month of the year ending December 31, 1890. (Still-bir included.)*

State and counties.	Sex.	Year, 1890.	Months, 1890.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
State	Totals	52,806	4130	3718	4356	4407	4568	4313	4397	4651	4517	4219	4223	4765
	Males	27,523	2197	1962	2274	2365	2416	2321	2309	2451	2325	2162	2222	2502
	Females	24,687	1924	1754	2073	2036	2144	1989	2082	2192	2177	2051	1989	2256
	Unknown	96	9	2	9	6	8	3	6	8	15	6	12	7
Alcona	Totals	105	5	12	10	11	7	9	5	11	9	9	8	9
	Males	53	2	8	7	3	3	5	4	4	3	4	6	4
	Females	51	3	4	3	7	4	4	1	7	6	5	2	5
	Unknown	1	----	----	----	1	----	----	----	----	----	----	----	----
Alger	Totals	18	----	1	5	----	----	1	4	1	1	1	1	3
	Males	8	----	1	1	----	----	1	2	----	----	----	1	2
	Females	10	----	----	4	----	----	----	2	1	1	1	----	1
Allegan	Totals	618	40	27	40	46	53	54	51	60	62	57	67	61
	Males	324	20	18	21	24	26	32	24	31	29	28	35	36
	Females	291	20	9	19	22	27	22	27	28	32	29	31	25
	Unknown	3	----	----	----	----	----	----	----	1	1	----	1	----
Alpena	Totals	316	18	24	25	36	23	31	26	25	29	17	29	33
	Males	165	8	17	14	22	9	14	12	14	13	13	12	17
	Females	151	10	7	11	14	14	17	14	11	16	4	17	16
Antrim	Totals	174	9	15	16	15	24	14	17	17	12	8	13	14
	Males	109	6	8	9	7	17	12	11	8	5	6	8	12
	Females	64	3	7	7	8	7	2	5	9	7	2	5	2
	Unknown	1	----	----	----	----	----	----	1	----	----	----	----	----
Arenac	Totals	134	13	7	9	16	9	15	4	14	12	14	10	11
	Males	61	5	2	5	7	3	7	2	9	5	8	2	6
	Females	73	8	5	4	9	6	8	2	5	7	6	8	5
Baraga	Totals	87	14	7	5	5	3	7	8	13	2	8	4	11
	Males	50	10	3	2	3	2	5	2	9	1	5	2	6
	Females	37	4	4	3	2	1	2	6	4	1	3	2	5
Barry	Totals	384	30	31	40	37	32	14	31	36	39	32	31	31
	Males	195	15	17	15	18	20	6	18	16	25	18	14	[illegible]
	Females	188	15	14	25	19	12	8	13	20	14	14	16	18
	Unknown	1	----	----	----	----	----	----	----	----	----	----	1	----

TABLE 4.—CONTINUED.—*Births by counties, by months, and by sex.*

'ounties.	Sex.	Year, 1890.	Months, 1890.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	Totals	1,581	135	129	152	136	130	100	132	127	143	121	111	165	....
	Males	787	72	65	75	59	64	52	73	67	57	54	66	83	....
.....	Females	792	63	64	75	77	66	48	59	60	86	67	45	82	....
	Unknown	2	....	....	2	....	....	....	....	....	....	....	....	....	....
	Totals	107	4	6	5	13	13	12	6	11	7	9	13	8	....
.....	Males	51	1	3	3	7	9	4	2	6	2	4	4	6	....
	Females	56	3	3	2	6	4	8	4	5	5	5	9	2	....
	Totals	699	48	49	51	40	47	56	59	59	60	75	75	80	....
	Males	355	22	33	28	18	30	17	29	39	21	39	40	39	....
.....	Females	342	25	16	23	22	17	38	30	20	39	36	35	41	....
	Unknown	2	1	....	....	....	....	1	....	....	....	....	....	....	....
	Totals	361	24	21	36	37	29	30	36	33	25	29	36	25	....
.....	Males	181	10	12	16	19	15	13	15	15	14	14	21	17	....
	Females	180	14	9	20	18	14	17	21	18	11	15	15	8	....
	Totals	592	44	30	53	37	55	49	49	53	51	57	42	71	1
	Males	321	22	13	28	23	36	26	26	26	30	30	19	42	....
.....	Females	269	21	17	25	14	19	23	23	27	20	27	23	29	1
	Unknown	2	1	....	....	....	....	....	....	....	1	....	....	....	....
	Totals	312	30	12	22	18	22	24	39	32	38	21	23	31	....
	Males	159	13	6	11	13	12	13	22	15	16	9	15	14	....
.....	Females	145	16	6	10	5	10	11	16	16	22	12	5	16	....
	Unknown	8	1	....	1	....	....	....	1	1	....	....	3	1	....
	Totals	163	5	7	6	18	19	14	16	26	11	17	12	11	1
ix.....	Males	80	5	2	4	7	9	4	11	15	5	7	8	3	....
	Females	83	....	5	2	11	10	10	5	11	6	10	4	8	1
	Totals	319	21	20	19	26	28	32	28	39	23	29	25	29	....
an.....	Males	167	17	7	7	15	11	16	17	26	10	14	11	16	....
	Females	152	4	13	12	11	17	16	11	13	13	15	14	13	....
	Totals	208	10	14	16	16	17	19	21	21	16	13	18	22	5
	Males	111	5	7	8	9	8	11	9	12	9	5	13	13	2
ra.....	Females	92	5	7	8	6	9	8	12	9	7	7	4	9	1
	Unknown	5	....	....	....	1	....	....	....	....	....	1	1	....	2
	Totals	114	8	4	11	5	7	18	13	15	13	5	8	6	1
.....	Males	71	7	1	6	1	4	11	9	12	8	1	5	5	1
	Females	43	1	3	5	4	3	7	4	3	5	4	3	1	....

TABLE 4.—CONTINUED.—*Births by counties, by months, and by sex.*

Counties.	Sex.	Year, 1890.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Clinton	Totals	476	41	33	36	27	46	41	42	45	41	38	36	50	----
	Males	249	18	18	17	15	23	25	24	25	20	25	20	19	----
	Females	226	23	15	19	12	23	16	18	19	21	13	16	31	----
	Unknown	1	----	----	----	----	----	----	----	1	----	----	----	----	----
Crawford	Totals	47	5	2	2	2	4	3	2	5	5	5	6	3	3
	Males	27	3	1	----	----	2	3	1	4	2	3	4	2	2
	Females	20	2	1	2	2	2	----	1	1	3	2	2	1	1
Delta	Totals	472	33	37	39	34	37	36	42	46	42	32	40	54	----
	Males	215	15	14	14	20	20	12	25	26	17	11	18	23	----
	Females	257	18	23	25	14	17	24	17	20	25	21	22	31	----
Eaton	Totals	435	36	31	34	35	34	42	41	37	41	34	35	34	1
	Males	224	18	17	15	20	16	23	22	21	18	17	17	20	----
	Females	206	18	14	19	15	15	19	18	16	22	17	18	14	1
	Unknown	5	----	----	----	----	3	----	1	----	1	----	----	----	----
Emmet	Totals	104	7	4	12	8	14	7	11	7	13	10	8	3	----
	Males	53	3	1	1	6	8	3	7	2	9	5	6	2	----
	Females	50	4	3	11	2	6	4	4	5	4	4	2	1	----
	Unknown	1	----	----	----	----	----	----	----	----	----	1	----	----	----
Genesee	Totals	479	37	21	28	40	43	38	44	44	48	45	47	44	----
	Males	238	18	11	19	22	24	20	14	22	27	20	24	17	----
	Females	239	19	10	9	18	19	18	30	22	20	25	23	26	----
	Unknown	2	----	----	----	----	----	----	----	----	1	----	----	1	----
Gladwin	Totals	18	----	----	2	----	2	2	4	1	3	2	1	1	----
	Males	9	----	----	1	----	1	2	1	1	1	1	1	----	----
	Females	9	----	----	1	----	1	----	3	----	2	1	----	1	----
Gogebic	Totals	227	20	15	32	15	26	13	15	18	23	16	13	21	----
	Males	144	15	12	21	10	18	7	9	10	8	11	9	14	----
	Females	83	5	3	11	5	8	6	6	8	15	5	4	7	----
Grand Traverse	Totals	207	16	9	12	24	26	13	21	17	20	20	8	20	1
	Males	114	10	3	6	16	16	8	11	11	6	11	4	11	1
	Females	93	6	6	6	8	10	5	10	6	14	9	4	9	----
Gratiot	Totals	407	33	17	29	36	29	33	44	41	31	44	30	40	----
	Males	206	18	9	17	21	14	20	25	16	19	19	9	19	----
	Females	200	15	8	12	15	15	13	19	25	12	24	21	21	----
	Unknown	1	----	----	----	----	----	----	----	----	----	1	----	----	----

TABLE 4.—CONTINUED.—*Births by counties, by months, and by sex.*

Counties.	Sex.	Year, 1890.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Hillsdale	Totals	349	23	10	39	35	30	35	36	38	19	29	28	27	----
	Males	178	12	5	18	16	15	23	14	21	13	13	16	12	----
	Females	171	11	5	21	19	15	12	22	17	6	16	12	15	----
Houghton	Totals	1,279	105	79	108	101	109	97	105	120	120	117	125	91	2
	Males	654	55	41	50	57	52	57	54	59	64	60	57	47	1
	Females	620	48	38	58	44	57	40	50	61	55	57	68	43	1
	Unknown	5	2	----	----	----	----	----	1	----	1	----	----	1	----
Huron	Totals	738	42	49	75	63	61	63	51	67	64	60	63	78	2
	Males	389	19	26	39	34	32	36	27	38	34	35	30	38	1
	Females	347	23	23	36	29	29	27	24	29	30	25	33	39	----
	Unknown	2	----	----	----	----	----	----	----	----	----	----	----	1	1
Ingham	Totals	595	43	32	51	70	52	34	51	57	52	51	42	58	2
	Males	309	22	18	30	39	22	19	25	32	28	27	22	23	2
	Females	286	21	14	21	31	30	15	26	25	24	24	20	35	----
Ionia	Totals	433	34	21	19	36	40	41	41	33	63	20	43	42	----
	Males	215	19	12	11	19	17	19	23	15	36	7	19	18	----
	Females	217	15	9	8	17	23	22	18	17	27	13	24	24	----
	Unknown	1	----	----	----	----	----	----	----	1	----	----	----	----	----
Iosco	Totals	305	26	19	18	27	25	29	33	29	30	20	16	33	----
	Males	146	16	6	8	12	8	16	15	17	12	11	10	15	----
	Females	158	9	13	10	15	17	13	18	12	18	9	6	18	----
	Unknown	1	1	----	----	----	----	----	----	----	----	----	----	----	----
Isabella	Totals	447	35	26	34	40	38	39	34	43	32	44	45	36	1
	Males	227	19	13	16	22	22	17	16	19	18	27	24	13	1
	Females	220	16	13	18	18	16	22	18	24	14	17	21	23	----
Jackson	Totals	586	53	34	46	48	45	29	64	57	57	47	55	51	----
	Males	295	30	18	16	27	22	11	31	29	33	21	31	26	----
	Females	291	23	16	30	21	23	18	33	28	24	26	24	25	----
Kalamazoo	Totals	632	40	41	44	45	53	51	62	63	49	70	45	69	----
	Males	321	19	25	22	26	26	30	26	37	19	34	25	32	----
	Females	311	21	16	22	19	27	21	36	26	30	36	20	37	----
Kalkaska	Totals	78	4	3	7	9	5	8	4	6	9	5	6	12	----
	Males	44	2	1	5	4	2	6	4	5	6	1	3	5	----
	Females	34	2	2	2	5	3	2	----	1	3	4	3	7	----

TABLE 4.—CONTINUED.—*Births by counties, by months, and by sex.*

Counties.	Sex.	Year, 1889.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Kent	Totals	2,414	195	180	198	173	189	183	187	228	244	211	207	219	....
	Males	1,252	107	81	101	105	107	92	97	113	120	115	106	108	....
	Females	1,150	88	99	94	66	82	90	89	115	119	96	101	111	....
	Unkown	12	....	....	3	2	....	1	1	....	5	....	....	....	....
Keweenaw	Totals	113	7	10	13	9	12	13	11	2	9	10	9	8	....
	Males	57	4	8	7	5	7	4	6	1	2	5	4	4	....
	Females	56	3	2	6	4	5	9	5	1	7	5	5	4	....
Lake	Totals	41	2	3	7	4	2	2	3	3	3	5	3	4	....
	Males	21	....	1	5	3	1	1	1	2	2	2	1	2	....
	Female	20	2	2	2	1	1	1	2	1	1	3	2	2	....
Lapeer	Totals	432	23	34	30	35	33	45	39	35	46	34	34	44	....
	Males	235	11	19	21	20	18	25	23	22	21	18	18	19	....
	Females	197	12	15	9	15	15	20	16	13	25	16	16	25	....
Leelanau	Totals	214	17	18	14	22	21	21	17	15	13	20	14	22	....
	Males	117	10	13	9	10	15	9	11	9	6	9	6	10	....
	Females	97	7	5	5	12	6	12	6	6	7	11	8	12	....
Lenawee	Totals	600	49	45	49	47	49	49	43	48	62	53	50	55	1
	Males	307	27	24	22	25	24	27	24	22	30	29	25	27	1
	Females	292	22	21	27	22	25	22	19	26	32	24	24	28	....
	Unknown	1	....	....	....	....	....	....	....	....	....	....	1	....	....
Livingston	Totals	269	22	15	21	26	27	22	28	20	25	23	20	20	....
	Males	142	13	8	14	14	16	14	12	9	12	10	9	11	....
	Females	127	9	7	7	12	11	8	16	11	13	13	11	9	....
Luce	Totals	48	4	3	4	5	3	1	7	5	3	8	3	2	....
	Males	25	3	....	2	3	2	1	2	2	1	5	2	2	....
	Females	23	1	3	2	2	1	....	5	3	2	3	1	....	....
Mackinac	Totals	94	7	1	5	14	6	10	16	5	12	4	9	5	....
	Males	52	3	1	2	9	6	6	6	4	4	4	5	2	....
	Females	42	4	....	3	5	....	4	10	1	8	....	4	3	....
Macomb	Totals	609	45	42	49	55	54	59	39	52	59	45	49	61	....
	Males	300	26	18	25	25	27	29	20	25	29	22	21	33	....
	Females	309	19	24	24	30	27	30	19	27	30	23	28	28	....
Manistee	Totals	668	44	33	49	50	58	46	63	75	55	56	50	87	2
	Males	350	23	16	26	27	31	26	35	41	25	29	30	41	....
	Females	311	21	16	23	22	27	20	28	31	29	27	20	45	2
	Unknown	7	....	1	....	1	....	....	....	3	1	....	....	1	....

TABLE 4.—CONTINUED.—*Births by counties, by months, and by Sex.*

Counties.	Sex.	Year, 1890.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Manitou	Totals	15	3	2	1	----	1	1	----	1	2	2	1	1	----
	Males	6	3	----	----	----	----	----	----	1	2	----	----	----	----
	Females	9	----	2	1	----	1	1	----	----	----	2	1	1	----
Marquette	Totals	1,234	112	74	113	108	96	92	108	96	97	116	105	122	----
	Males	655	61	38	66	49	48	55	55	50	54	61	55	63	----
	Females	579	51	36	47	59	48	37	48	46	43	55	50	59	----
Mason	Totals	424	32	33	39	38	38	31	37	45	33	34	26	38	----
	Males	231	17	21	17	17	28	21	19	21	20	18	12	20	----
	Females	193	15	12	22	21	10	10	18	24	13	16	14	18	----
Mecosta	Totals	346	21	27	32	34	33	32	22	21	38	27	27	32	----
	Males	185	12	12	17	17	18	14	16	9	17	18	10	25	----
	Females	161	9	15	15	17	15	18	6	12	21	9	17	7	----
Menominee	Totals	1,148	73	96	95	104	102	87	85	113	99	94	102	96	2
	Males	631	44	49	53	52	55	49	41	65	59	47	65	51	1
	Females	512	29	47	42	52	46	38	44	48	38	47	35	45	1
	Unknown	5	----	----	----	----	1	----	----	----	2	----	2	----	----
Midland	Totals	184	10	10	15	10	16	17	21	16	21	13	11	24	----
	Males	89	3	5	10	3	9	7	10	6	14	3	8	11	----
	Females	95	7	5	5	7	7	10	11	10	7	10	3	13	----
Missaukee	Totals	157	11	14	6	15	15	18	17	16	15	9	8	13	----
	Males	89	7	9	2	9	10	9	9	6	9	4	5	10	----
	Females	68	4	5	4	6	5	9	8	10	6	5	3	3	----
Monroe	Totals	632	43	38	47	66	52	53	53	59	48	45	64	64	----
	Males	344	25	18	28	34	28	35	32	32	23	25	31	33	----
	Females	288	18	20	19	32	24	18	21	27	25	20	33	31	----
Montcalm	Totals	521	30	28	48	46	57	35	52	48	39	41	42	55	----
	Males	286	13	13	25	26	33	23	31	31	17	21	24	29	----
	Females	235	17	15	23	20	24	12	21	17	22	20	18	26	----
Montmorency	Totals	37	2	1	----	8	5	4	4	5	2	2	----	4	----
	Males	24	----	----	----	5	5	2	3	3	1	1	----	4	----
	Females	13	2	1	----	3	----	2	1	2	1	1	----	----	----
Muskegon	Totals	1,026	103	76	74	82	80	72	76	100	98	82	94	93	1
	Males	551	66	41	42	46	35	35	38	54	58	40	45	51	----
	Females	472	37	35	31	36	45	36	38	46	35	41	49	42	1
	Unknown	3	----	----	1	----	----	1	----	----	----	1	----	----	----

TABLE 4.—CONTINUED.—*Births by counties, by months, and by sex.*

Counties.	Sex.	Year, 1890.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Newaygo	Totals	347	25	25	27	29	44	41	23	22	24	28	32	26	1
	Males	182	13	16	19	15	20	22	12	9	10	17	16	13	----
	Females	163	12	9	7	14	24	19	11	13	14	11	16	12	1
	Unknown	2	----	----	1	----	----	----	----	----	----	----	----	1	----
Oakland	Totals	505	27	34	43	40	36	43	52	50	44	48	37	51	----
	Males	269	11	19	22	18	28	26	28	24	24	25	15	29	----
	Females	235	16	15	21	22	8	17	24	26	20	22	22	22	----
	Unknown	1	----	----	----	----	----	----	----	----	----	1	----	----	----
Oceana	Totals	250	15	12	18	19	22	33	26	26	25	19	15	20	----
	Males	136	9	6	5	10	13	16	16	15	16	8	7	15	----
	Females	112	4	6	13	9	9	17	10	11	9	11	8	5	----
	Unknown	2	2	----	----	----	----	----	----	----	----	----	----	----	----
Ogemaw	Totals	88	6	3	10	3	6	10	10	9	6	12	2	11	----
	Males	45	2	1	4	2	2	4	5	6	5	8	1	5	----
	Females	42	4	2	6	1	4	6	4	3	1	4	1	6	----
	Unknown	1	----	----	----	----	----	----	1	----	----	----	----	----	----
Ontonagon	Totals	64	8	5	4	3	7	5	7	6	4	4	4	7	----
	Males	30	3	4	3	1	3	2	3	3	2	2	2	2	----
	Females	34	5	1	1	2	4	3	4	3	2	2	2	5	----
Osceola	Totals	366	23	29	36	38	32	35	42	26	30	26	27	21	1
	Males	197	10	14	17	27	15	25	22	14	14	13	13	12	1
	Females	169	13	15	19	11	17	10	20	12	16	13	14	9	----
Oscoda	Totals	20	2	----	1	1	3	1	2	1	1	3	3	2	----
	Males	12	1	----	----	----	2	1	1	1	----	2	3	1	----
	Females	8	1	----	1	1	1	----	1	----	1	1	----	1	----
Otsego	Totals	45	2	1	2	4	4	6	6	4	5	3	6	2	----
	Males	25	1	----	2	2	2	3	1	3	4	2	3	2	----
	Females	20	1	1	----	2	2	3	5	1	1	1	3	----	----
Ottawa	Totals	846	56	79	70	71	73	58	71	79	81	85	49	74	----
	Males	444	34	47	39	39	37	31	33	35	43	45	23	38	----
	Females	402	22	32	31	32	36	27	38	44	38	40	26	36	----
Presque Isle	Totals	117	9	6	17	10	12	8	11	7	10	9	7	11	----
	Males	52	5	2	6	5	6	2	5	3	5	4	1	6	----
	Females	65	4	4	11	5	6	6	6	2	5	5	6	5	----

TABLE 4.—CONTINUED.—*Births by counties, by months, and by sex.*

Counties.	Sex.	Year, 1890.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Roscommon	Totals	37	2	....	2	....	2	7	4	2	2	6	5	5	....
	Males	20	....	....	1	....	2	3	2	2	1	2	3	4	....
	Females	17	2	....	1	....	....	4	2	....	1	4	2	1	....
Saginaw	Totals	2,028	168	149	158	164	194	166	178	200	171	138	175	172	....
	Males	1,039	82	82	89	89	102	84	87	97	90	65	87	85	....
	Females	988	81	67	69	75	92	82	91	103	81	72	88	87	....
	Unknown	1	....	....	....	....	....	....	....	....	....	1	....	....	....
Sanilac	Totals	741	42	59	50	72	72	59	60	58	72	58	74	65	....
	Males	396	26	36	21	41	40	28	31	28	45	26	38	36	....
	Females	344	16	23	29	31	32	31	29	30	27	32	36	28	....
	Unknown	1	....	....	....	....	....	....	....	....	....	....	....	1	....
Schoolcraft	Totals	60	5	2	3	6	9	2	4	4	5	7	2	7	4
	Males	26	3	....	1	2	4	2	1	....	4	4	....	4	1
	Females	34	2	2	2	4	5	....	3	4	1	3	2	3	3
Shiawassee	Totals	385	21	29	29	33	33	43	24	48	35	27	30	33	....
	Males	197	9	13	15	19	21	17	13	24	23	10	13	20	....
	Females	188	12	16	14	14	12	26	11	24	12	17	17	13	....
St. Clair	Totals	989	67	65	78	69	68	81	96	107	87	92	98	80	1
	Males	484	33	26	37	33	31	39	51	53	46	48	43	44	....
	Females	500	34	39	41	36	36	42	45	53	40	44	53	36	1
	Unknown	5	....	....	....	....	1	....	....	1	1	....	2	....	....
St. Joseph	Totals	374	35	30	26	34	33	18	31	38	36	24	37	32	....
	Males	177	16	14	12	17	16	7	15	22	16	9	16	17	....
	Females	195	19	16	14	17	15	11	16	16	20	15	21	15	....
	Unknown	2	....	....	....	....	2	....	....	....	....	....	....	....	....
Tuscola	Totals	541	28	36	32	38	56	47	48	68	47	51	52	38	....
	Males	273	13	17	16	22	26	24	29	34	27	24	25	16	....
	Females	268	15	19	16	16	30	23	19	34	20	27	27	22	....
Van Buren	Totals	522	38	29	41	56	50	29	55	45	50	45	38	46	....
	Males	269	16	15	18	31	20	17	29	21	23	31	24	24	....
	Females	253	22	14	23	25	30	12	26	24	27	14	14	22	....

TABLE 4.—CONTINUED.—*Births by counties, by months, and by sex.*

Counties.	Sex.	Year, 1890.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Washtenaw	Totals	546	47	34	45	48	43	61	44	44	46	36	42	35	1
	Males	287	25	17	23	26	21	34	23	24	21	18	21	34	....
	Females	258	22	17	22	22	22	27	21	20	25	18	20	21	1
	Unknown	1	....	....	....	....	....	....	....	....	....	....	1	....	....
Wayne	Totals	17,372	1552	1397	1547	1494	1564	1480	1360	1418	1382	1320	1327	1528	8
	Males	9,374	829	755	832	811	836	822	737	757	722	691	745	835	1
	Females	7,990	722	641	714	682	727	658	623	656	659	629	582	693	4
	Unknown	8	1	1	1	1	1	....	....	....	1	....	....	....	2
Wexford	Totals	231	11	12	20	17	19	34	28	19	21	13	15	22	....
	Males	135	7	9	12	10	8	22	12	12	15	4	10	14	....
	Females	96	4	3	8	7	11	12	16	7	6	9	5	8	....

Table 5 gives interesting data concerning the birth rate and the proportion of the sexes among different races of people. The per cent of children born to inhabitants of same race is found to be highest among the blacks, and lowest for the mulatto race. The per cent of each sex to children of both sexes shows males lowest for the blacks and highest for Mulatto.

Table 6 presents the birth rate in the different counties of the State, based upon the return of births for 1890 and the State census of 1884. Four propositions are made concerning the influence of the increase or decrease of the birth rate upon the sex of the children born, which are as follows: 1, greater than the average birth rate, more than average proportion of males; 2, greater than average birth rate, less than average proportion of males; 3, less than average birth rate, less than average proportion of males; 4, less than average birth rate, more than average proportion of males. A survey of the table will show the proportion for each county.

TABLE 5.—*Exhibiting by color and sex, the population of Michigan June 1, 1884, the number of births returned for the year 1890, the per cent of births to population, and the per cent of births of each sex to the total of both sexes. (Still births included.)*

Race or color.	Sex.	Population June 1, 1884, represented by births in 1890.	Children born in 1890.	Per cent of births of each color to total of all colors by sex.	Per cent of children born to inhabitants.	Per cent of each sex to children of both sexes.	Inhabit'ts to one child born by color and sex.
All colors	Totals	*1,839,137	52,306	100.00	2.84	.....	35.16
	Males	966,267	27,523	100.00	2.84	52.72	35.10
	Females	872,664	24,687	100.00	2.82	47.28	35.34
	Unknown	206	96	.....	.....	.....	.....
White	Totals	1,816,523	51,760	98.95	2.84	.....	35.10
	Males	954,556	27,263	99.05	2.85	52.75	35.00
	Females	861,967	24,416	98.90	2.83	47.25	35.30
	Unknown	10	81	84.37	.....	.....	.....
Black	Totals	6,845	342	.65	4.99	.....	20.07
	Males	3,685	159	.57	4.31	46.63	23.17
	Females	3,160	182	.73	5.75	53.37	17.36
	Unknown	.....	1	.....	.....	.....	.....
Mulatto	Totals	8,267	80	.15	.96	.....	103.33
	Males	4,211	43	.15	1.02	53.75	97.93
	Females	4,056	37	.14	.91	46.25	109.62
Indian	Totals	6,467	108	.26	1.67	.....	59.87
	Males	3,367	57	.20	1.69	52.78	59.07
	Females	3,100	51	.20	1.64	47.22	60.78
Unknown color	Totals	965	16	.03	1.65	.....	63.12
	Males	388	1	.03	.25	50.00	388.00
	Females	381	1	.04	.26	50.00	381.00
	Unknown	196	14	.....	.....	.....	.....
Black and Mulatto	Totals	15,112	422	.80	2.78	.....	35.81
	Males	7,896	202	.73	2.55	47.86	39.08
	Females	7,216	219	.88	3.03	51.89	32.95
	Unknown	.....	1	.....	.....	.....	.....

* Includes 70 Asiatic males.

TABLE 6.—*Exhibiting, for the State and counties of Michigan, by sex, the population in 1884, the per cent of births in 1889 to population, the number of males to 100 females, and by sex and color, the births returned for 1890.* (*Still births included.*)

State and counties.	Births—males to 100 females.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1884, represented by births in 1890.	Per cent of births of each sex to population of same sex.	Color—children born in 1890.					
						Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
State	111	Totals		1,839,137	4.22	52,306	51,760	342	80	108	16
		Males	52.71	966,267	2.85	27,523	27,263	159	43	57	1
		Females	47.29	872,664	2.49	24,687	24,416	182	37	51	1
		Unknown		206		96	81	1			14
Alcona	104	Totals		4,028	2.61	105	105				
		Males	50.96	2,428	2.19	53	53				
		Females	49.04	1,600	3.11	51	51				
		Unknown				1	1				
Alger *	80	Totals				18	15			3	
		Males	44.45			8	7			1	
		Females	55.55			10	8			2	
Allegan	111	Totals		38,666	1.60	618	609	2	5		2
		Males	52.68	20,052	1.61	324	318	1	5		
		Females	47.32	18,614	1.56	291	290	1			
		Unknown				3	1				2
Alpena	109	Totals		12,683	2.49	316	316				
		Males	52.22	6,990	2.36	165	165				
		Females	47.78	5,693	2.65	151	151				
Antrim	170	Totals		8,761	1.98	174	174				
		Males	63.00	4,736	2.30	109	109				
		Females	37.00	4,025	1.59	64	64				
		Unknown				1	1				
Arenac	84	Totals		4,027	3.33	134	134				
		Males	45.52	2,319	2.63	61	61				
		Females	54.48	1,708	4.27	73	73				
Baraga	135	Totals		3,039	2.86	87	67	1		19	
		Males	57.47	1,819	2.75	50	38	1		a 11	
		Females	42.53	1,220	3.03	37	29			a 8	
Barry	104	Totals		24,102	1.59	384	383				1
		Males	50.91	12,507	1.56	195	195				
		Females	49.09	11,595	1.62	188	188				
		Unknown				1					1

* Organized since census was taken. a 6 white and Indian.

TABLE 6.—CONTINUED.—*Births by counties, by sex, and by color.*

Counties.	Births—males to 100 females.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1884 represented by births in 1890.	Per cent of births of each sex to population of same sex.	Color—children born in 1890. Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Bay	100	Totals	49.84	51,221	3.09	1,581	1,578	2	1		
		Males	50.16	28,215	2.43	787	786		1		
		Females		23,600	3.36	792	790	2			
		Unknown				2	2				
Benzie	91	Totals		4,389	2.44	107	105		2		
		Males	47.66	2,349	2.17	51	50		1		
		Females	52.34	2,040	2.75	56	55		1		
Berrien	104	Totals		37,776	1.85	699	686	7	6		
		Males	50.93	19,225	1.85	355	347	4	4		
		Females	49.07	18,551	1.84	342	337	3	2		
		Unknown				2	2				
Branch	101	Totals		27,661	1.31	361	361				
		Males	50.14	14,042	1.29	181	181				
		Females	49.86	13,619	1.32	180	180				
Calhoun	119	Totals		41,585	1.42	592	585	3	2	1	1
		Males	54.40	21,297	1.51	321	317	2	1	1	
		Females	45.60	20,285	1.33	269	266	1	1		1
		Unknown		3		2	2				
Cass	110	Totals		21,202	1.47	312	286	6	16	4	
		Males	52.30	10,886	1.46	159	144	4	11		
		Females	47.70	10,316	1.41	145	134	2	5	4	
		Unknown				8	8				
Charlevoix	96	Totals		9,111	1.57	163	163				
		Males	49.08	4,944	1.62	80	80				
		Females	50.92	4,167	1.99	83	83				
Cheboygan	110	Totals		9,946	3.21	319	318			1	
		Males	52.35	5,503	3.03	167	166			a 1	
		Females	47.65	4,443	3.42	152	152				
Chippewa	121	Totals		7,976	2.61	208	205			2	1
		Males	54.70	4,527	2.45	111	110			a 1	
		Females	45.30	3,449	2.67	92	91			1	
		Unknown				5	4				1
Clare	165	Totals		5,549	2.06	114	114				
		Males	62.28	3,251	2.18	71	71				
		Females	37.72	2,298	1.87	43	43				

a 1 white and Indian.

TABLE 6.—CONTINUED.—*Births by counties, by sex, and by color.*

Counties.	Births—males to 100 females.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1884 represented by births in 1890.	Per cent of births of each sex to population of same sex.	Color—children born in 1890. Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Clinton	110	Totals		27,135	1.75	476	474		2		
		Males	52.42	14,034	1.78	249	249				
		Females	47.58	13,101	1.72	226	224		2		
		Unknown				1	1				
Crawford	135	Totals		2,259	2.08	47	47				
		Males	57.45	1,304	2.07	27	27				
		Females	42.55	930	2.15	20	20				
Delta	84	Totals		9,992	4.72	472	471			1	
		Males	45.55	5,876	3.66	215	214			b 1	
		Females	54.45	4,116	6.24	257	257				
Eaton	109	Totals		31,802	1.37	435	432	1	1		1
		Males	52.10	16,210	1.38	224	223	1			
		Females	47.90	15,592	1.32	206	205		1		
		Unknown				5	4				1
Emmet	106	Totals		4,231	2.46	104	71			33	
		Males	51.45	2,206	2.40	53	37			a 16	
		Females	48.55	2,025	2.47	50	33			b 17	
		Unknown				1	1				
Genesee	100	Totals		38,776	1.23	479	470	5	4		
		Males	49.90	19,782	1.20	238	236	2			
		Females	50.01	18,994	1.26	239	232	3	4		
		Unknown				2	2				
Gladwin	100	Totals		882	2.04	18	18				
		Males	50.00	518	7.74	9	9				
		Females	50.00	364	2.50	9	9				
Gogebic *	173	Totals				227	227				
		Males	63.44			144	144				
		Females	36.56			83	83				
Grand Traverse	123	Totals		12,092	1.71	207	206			1	
		Males	55.07	6,522	1.75	114	113			1	
		Females	44.93	5,570	1.67	93	93				
Gratiot	103	Totals		25,049	1.63	407	405	1	1		
		Males	50.74	13,204	1.56	206	205		1		
		Females	49.26	11,845	1.69	200	199	1			
		Unknown				1	1				

* Organized since census was taken.
a 2 white and Indian. b 1 white and Indian.

TABLE 6.—CONTINUED.—*Births by counties, by sex, and by color.*

Counties.	Births—males to 100 females.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1884, represented by births in 1890.	Per cent of births of each sex to population of same sex.	Color—children born in 1890. Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Hillsdale	104	Totals		31,686	1.10	349	349				
		Males	51.00	15,911	1.12	178	178				
		Females	49.00	15,775	1.09	171	171				
Houghton	105	Totals		26,146	4.90	1,279	1,278			1	
		Males	51.33	14,168	4.62	654	654				
		Females	48.67	11,978	5.18	620	619			1	
		Unknown				5	5				
Huron	112	Totals		24,521	3.01	738	738				
		Males	52.85	12,934	3.00	389	389				
		Females	47.15	11,585	3.00	347	347				
		Unknown		2		2	2				
Ingham	108	Totals		34,939	1.70	595	588	7			
		Males	51.93	17,917	1.72	309	307	2			
		Females	48.07	17,022	1.68	286	281	5			
Ionia	99	Totals		32,559	1.33	433	432	1			
		Males	49.77	17,057	1.26	215	215				
		Females	50.23	15,502	1.40	217	216	1			
		Unknown				1	1				
Iosco	92	Totals		10,602	2.89	305	305				
		Males	48.03	6,060	2.41	146	146				
		Females	51.97	4,542	3.48	158	158				
		Unknown				1	1				
Iron*		Totals									
		Males									
		Females									
Isabella	103	Totals		16,011	2.79	447	438		2	7	
		Males	50.78	8,597	2.64	227	225			2	
		Females	49.22	7,414	2.97	220	213		2	5	
Jackson	101	Totals		45,232	1.30	586	580	5	1		
		Males	50.34	23,385	1.26	295	294		1		
		Females	49.66	21,847	1.33	291	286	5			
Kalamazoo	108	Totals		35,281	1.79	632	622	9	1		
		Males	50.79	17,875	1.80	321	315	5	1		
		Females	49.21	17,406	1.79	311	307	4			

* Organized since census was taken.

TABLE 6.—CONTINUED.—*Births by counties, by sex, and by color.*

Counties.	Births—males to 100 Females.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1884, represented by births in 1890.	Per cent of births of each sex to population of same sex.	Color—children born in 1890.					
						Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Kalkaska	129	Totals	.....	4,493	1.74	78	78	.....	.....	.....	.....
		Males	56.41	2,470	1.86	44	44	.....	.....	.....	.....
	*	Females	43.59	2,023	1.68	34	34	.....	.....	.....	.....
Kent	108	Totals	.....	84,600	2.85	2,414	2,388	16	.....	.....	10
		Males	52.12	43,467	2.88	1,252	1,241	10	.....	.....	1
		Females	47.88	41,143	2.80	1,150	1,144	6	.....	.....	.....
		Unknown	.....	.....	.....	12	3	.....	.....	.....	9
Keweenaw	102	Totals	.....	4,667	2.42	113	113	.....	.....	.....	.....
		Male	50.44	2,551	2.23	57	57	.....	.....	.....	.....
		Females	49.56	2,116	2.65	56	56	.....	.....	.....	.....
Lake	105	Totals	.....	6,660	.62	41	41	.....	.....	.....	.....
		Males	51.22	3,999	.53	21	21	.....	.....	.....	.....
		Females	48.78	2,661	.75	20	20	.....	.....	.....	.....
Lapeer	119	Totals	.....	30,057	1.44	432	432	.....	.....	.....	.....
		Males	54.40	15,568	1.57	235	235	.....	.....	.....	.....
		Females	45.60	14,489	1.36	197	197	.....	.....	.....	.....
Leelanau	121	Totals	.....	7,128	3.00	214	196	.....	.....	18	.....
		Males	54.67	3,842	3.05	117	105	.....	.....	12	.....
		Females	45.33	3,286	2.95	97	91	.....	.....	6	.....
Lenawee	105	Totals	.....	49,584	1.21	600	594	4	2	.....	.....
		Males	51.25	24,916	1.23	307	304	3	.....	.....	.....
		Females	48.75	24,668	1.22	292	289	1	2	.....	.....
		Unknown	.....	.....	.....	1	1	.....	.....	.....	.....
Livingston	112	Totals	.....	21,568	1.25	269	269	.....	.....	.....	.....
		Males	52.79	11,254	1.26	142	142	.....	.....	.....	.....
		Females	47.21	10,314	1.23	127	127	.....	.....	.....	.....
Luce*	109	Totals	.....	387	12.40	48	47	.....	1	.....	.....
		Males	52.08	.....	.....	25	24	.....	1	.....	.....
		Females	47.92	.....	.....	23	23	.....	.....	.....	.....
Mackinac	124	Totals	.....	3,873	2.43	94	90	.....	.....	4	.....
		Males	55.32	2,237	2.32	52	50	.....	.....	2	.....
		Females	44.68	1,636	2.57	42	40	.....	.....	2	.....
Macomb	97	Totals	.....	31,293	1.95	609	608	.....	1	.....	.....
		Males	49.26	15,978	1.88	300	299	.....	1	.....	.....
		Females	50.74	15,315	2.02	309	309	.....	.....	.....	.....

* Organized since census was taken.

TABLE 6.—CONTINUED.—*Births by counties, by sex, and by color.*

Counties.	Births—males to 100 females.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1884 represented by births in 1890.	Per cent of births of each sex to population of same sex.	Color—children born in 1890. Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Manistee	113	Totals	.....	19,875	3.36	668	668	.....	.....	.....	.....
		Males	52.95	10,879	3.21	350	350	.....	.....	.....	.....
		Females	47.05	8,996	3.46	311	311	.....	.....	.....	.....
		Unknown	.....	.....	.....	7	7	.....	.....	.....	.....
Manitou	67	Totals	.....	1,198	1.25	15	15	.....	.....	.....	.....
		Males	40.00	547	1.10	6	6	.....	.....	.....	.....
		Females	60.00	456	1.97	9	9	.....	.....	.....	.....
		Unknown	.....	195	.....	.....	.....	.....	.....	.....	.....
Marquette	113	Totals	.....	31,397	3.93	1,234	1,234	.....	.....	.....	.....
		Males	53.08	17,580	3.73	655	655	.....	.....	.....	.....
		Females	46.92	13,817	4.19	579	579	.....	.....	.....	.....
Mason	120	Totals	.....	13,221	3.21	424	420	1	.....	3	.....
		Males	54.48	7,232	3.18	231	229	.....	.....	a 2	.....
		Females	45.52	5,989	3.22	193	191	1	.....	1	.....
Mecosta	115	Totals	.....	20,597	1.68	346	345	1	.....	.....	.....
		Males	53.47	11,283	1.64	185	184	1	.....	.....	.....
		Females	46.53	9,314	1.72	161	161	.....	.....	.....	.....
Menominee	123	Totals	.....	14,751	7.78	1,148	1,143	1	.....	4	.....
		Males	55.21	8,804	7.17	631	629	1	.....	1	.....
		Females	44.79	5,947	8.61	512	509	.....	.....	b 3	.....
		Unknown	.....	.....	.....	5	5	.....	.....	.....	.....
Midland	94	Totals	.....	7,580	2.43	184	184	.....	.....	.....	.....
		Males	48.37	4,071	2.19	89	89	.....	.....	.....	.....
		Females	51.63	3,480	2.73	95	95	.....	.....	.....	.....
Missaukee	131	Totals	.....	3,386	4.64	157	157	.....	.....	.....	.....
		Males	50.32	2,036	4.37	89	89	.....	.....	.....	.....
		Females	43.31	1,350	5.04	68	68	.....	.....	.....	.....
Monroe	119	Totals	.....	33,353	1.89	632	627	1	2	2	.....
		Males	54.43	17,186	2.00	344	339	1	2	2	.....
		Females	45.57	16,167	1.79	288	288	.....	.....	.....	.....
Montcalm	122	Totals	.....	34,018	1.53	521	521	.....	.....	.....	.....
		Males	54.90	18,092	1.58	286	286	.....	.....	.....	.....
		Females	45.10	15,925	1.45	235	235	.....	.....	.....	.....
		Unknown	.....	1	.....	.....	.....	.....	.....	.....	.....

a 1 white and Indian. b 2 white and Indian.

TABLE 6.—CONTINUED.—*Births by counties, by sex, and by color.*

Counties.	Births—males to 100 females.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1884 represented by births in 1890.	Per cent of births of each sex to population of same sex.	Color—children born in 1890.					
						Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Montmorency	185	Totals		765	4.84	37	37				
		Males	65.00	445	5.39	24	24				
		Females	35.00	320	4.06	13	13				
Muskegon	117	Totals		37,554	2.73	1,026	1,026				
		Males	53.86	20,522	2.68	551	551				
		Females	46.14	17,029	2.77	472	472				
		Unknown		3		3	3				
Newaygo	112	Totals		18,996	1.83	347	347				
		Males	52.75	10,684	1.70	182	182				
		Females	47.25	8,312	1.96	163	163				
		Unknown				2	2				
Oakland	114	Totals		41,100	1.23	505	505				
		Males	53.37	20,821	1.29	269	269				
		Females	46.63	20,279	1.16	235	235				
		Unknown				1	1				
Oceana	121	Totals		14,519	1.72	250	249			1	
		Males	54.84	7,859	1.73	136	135			1	
		Females	45.16	6,660	1.68	112	112				
		Unknown				2	2				
Ogemaw	107	Totals		3,637	2.42	88	88				
		Males	51.72	2,041	2.20	45	45				
		Females	48.28	1,596	2.63	42	42				
		Unknown				1	1				
Ontonagon	85	Totals		4,836	1.32	64	61			3	
		Males	46.88	3,329	.90	30	28			2	
		Females	53.12	1,507	2.26	34	33			1	
Osceola	117	Totals		14,001	2.61	366	366				
		Males	53.82	7,533	2.61	197	197				
		Females	46.18	6,468	2.61	169	169				
Oscoda	150	Totals		1,374	1.45	20	20				
		Males	60.00	798	1.50	12	12				
		Females	40.00	576	1.39	8	8				
Otsego	125	Totals		3,906	1.15	45	45				
		Males	55.56	2,223	1.13	25	25				
		Females	44.44	1,683	1.19	20	20				

TABLE 6.—CONTINUED.—*Births by counties, by sex, and by color.*

Counties.	Births—males to 100 females.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1884 represented by births in 1890.	Per cent of births of each sex to population of same sex.	Color—children born in 1890.					
						Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Ottawa	110	Totals	.....	36,225	2.34	846	846	.....	.....	.....	.....
		Males	52.48	18,970	2.34	444	444	.....	.....	.....	.....
		Females	47.52	17,255	2.33	402	402	.....	.....	.....	.....
Presque Isle	80	Totals	.....	4,064	2.88	117	117	.....	.....	.....	.....
		Males	44.44	2,168	2.40	52	52	.....	.....	.....	.....
		Females	55.56	1,896	3.43	65	65	.....	.....	.....	.....
Roscommon	118	Totals	.....	2,337	1.58	37	37	.....	.....	.....	.....
		Males	54.05	1,620	1.23	20	20	.....	.....	.....	.....
		Females	45.95	717	2.37	17	17	.....	.....	.....	.....
Saginaw	105	Totals	.....	74,795	2.71	2,028	2,025	.....	3	.....	.....
		Males	51.26	41,588	2.50	1,039	1,038	.....	1	.....	.....
		Females	48.74	33,207	2.98	988	986	.....	2	.....	.....
		Unknown	.....	.....	.....	1	1	.....	.....	.....	.....
Sanilac	115	Totals	.....	29,583	2.51	741	741	.....	.....	.....	.....
		Males	53.51	15,578	2.54	396	396	.....	.....	.....	.....
		Females	46.49	14,005	2.45	344	344	.....	.....	.....	.....
		Unknown	.....	.....	.....	1	1	.....	.....	.....	.....
Schoolcraft	76	Totals	.....	3,846	1.56	60	60	.....	.....	.....	.....
		Males	43.33	2,568	1.01	26	26	.....	.....	.....	.....
		Females	56.67	1,278	2.66	34	34	.....	.....	.....	.....
Shiawassee	105	Totals	.....	28,078	1.37	385	385	.....	.....	.....	.....
		Males	51.17	14,731	1.34	197	197	.....	.....	.....	.....
		Females	48.83	13,347	1.41	188	188	.....	.....	.....	.....
St. Clair	97	Totals	.....	46,783	2.11	989	987	1	1	.....	.....
		Males	49.19	24,058	2.01	484	483	.....	1	.....	.....
		Females	50.81	22,723	2.20	500	499	1	.....	.....	.....
		Unknown	.....	2	.....	5	5	.....	.....	.....	.....
St. Joseph	91	Totals	.....	26,277	1.42	374	373	.....	1	.....	.....
		Males	47.58	13,295	1.33	177	176	.....	1	.....	.....
		Females	52.42	12,982	1.50	195	195	.....	.....	.....	.....
		Unknown	.....	.....	.....	2	2	.....	.....	.....	.....
Tuscola	102	Totals	.....	30,726	1.76	541	541	.....	.....	.....	.....
		Males	50.46	16,126	1.69	273	273	.....	.....	.....	.....
		Females	49.54	14,600	1.83	268	268	.....	.....	.....	.....
Van Buren	106	Totals	.....	30,341	1.72	522	511	4	7	.....	.....
		Males	51.53	15,377	1.75	269	264	3	2	.....	.....
		Females	48.47	14,964	1.69	253	247	1	5	.....	.....

TABLE 6.—CONTINUED.—*Births by counties, by sex, and by color.*

Counties.	Births—males to 100 females.	Sex.	Per cent of births of each sex to total of both sexes.	Population in 1884 represented by births in 1890.	Per cent of births of each sex to population of same sex.	Color—children born in 1890.					
						Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Washtenaw	111	Totals		41,694	1.31	546	541	3	2		
		Males	52.66	21,067	1.36	287	286		1		
		Females	47.34	20,627	1.25	258	255	2	1		
		Unknown				1		1			
Wayne	117	Totals		188,966	9.19	17,372	17,096	260	16		
		Males	53.99	94,492	9.92	9,374	9,249	118	7		
		Females	46.01	94,474	8.46	7,990	7,839	142	9		
		Unknown				8	8				
Wexford	141	Totals		10,518	2.19	231	231				
		Males	58.44	5,732	2.35	135	135				
		Females	41.56	4,786	2.00	96	96				

PARENT NATIVITY.

Table 7 shows the number and per cent of children born of native, foreign and mixed parentage in Michigan for 1890. The native born parents comprise 41.80 per cent of all and the foreign parents 38.38 per cent. For 1889 the per cent of native parents was 41.77, and the foreign parents 38.95.

TABLE 7.—*Showing, by sex, the parent nativity of children born in Michigan during the year 1890, according to the returns.*

Nativity of parents of children born, 1890.	Total births, 1890.							
	Number.				Per cent of total.			
	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.
All nativities	52,306	27,522	24,687	96	100.00	100.00	100.00	100.00
Both parents native born	21,866	11,442	10,391	33	41.80	41.58	42.09	34.37
Both parents foreign born	20,076	10,581	9,473	22	38.38	38.45	38.37	22.92
Foreign father and native mother	5,643	2,981	2,658	4	19.79	10.83	10.76	4.17
Foreign mother and native father	3,157	1,699	1,448	10	6.04	6.17	5.90	10.42
Unknown mother, father native	246	137	107	2	.47	.49	.43	2.08
Unknown mother, father foreign	190	102	85	3	.36	.37	.34	3.13
Unknown father, mother native	247	123	118	6	.47	.45	.47	6.25
Unknown father, mother foreign	98	53	44	1	.19	.19	.17	1.04
Both unknown	783	405	363	15	1.50	1.47	1.47	15.62
One or both native	31,159	16,382	14,722	55	59.57	59.52	59.64	57.29
One or both foreign	29,164	15,416	13,708	40	55.76	56.01	55.53	41.67

The evidence concerning parent nativity in Michigan for several years is given in Table 8. Of children whose parents were both native born there were 21,866; of those whose parents were both foreign born, 20,076, or 1,790 more native than foreign.

TABLE 8.—*Parent nativity of children born in Michigan for each of the years 1888-1890, and the average for ten years, 1880-1889.*

Nativity of parents of children born.		1888.		1889.		1890.		Average for 10 years, 1880-1889.	
		Number.	Per cent of total.	Number.	Per cent of total.	Number.	Per cent of total.	Number.	Per cent of total.
All nativities		48,952	100.00	49,272	100.00	52,306	100.00	41,598	100.00
Both native born		21,542	44.01	20,579	41.77	21,866	41.80	18,098	43.61
Both foreign born		17,791	36.34	19,189	38.95	20,076	38.38	15,108	36.17
Foreign father and native mother		5,136	10.49	5,254	10.66	5,643	10.79	4,639	11.19
Foreign mother and native father		2,972	6.07	2,952	5.99	3,157	6.04	2,569	6.17
One or both unknown		1,511	3.09	1,298	2.63	1,564	2.99	1,184	2.86
One or both parents native a		29,650	60.56	28,785	58.42	30,666	58.63	25,328	61.06
One or both parents foreign a		25,899	52.91	14,263	28.95	28,876	55.20	21,017	50.70
Father	Native	24,643	50.34	23,674	48.05	25,269	48.31	20,813	50.14
	Foreign	23,001	46.99	24,559	49.84	25,909	49.53	19,833	47.57
	Unknown	1,308	2.67	1,039	2.11	1,128	2.16	951	2.28
Mother	Native	26,876	54.91	26,089	52.85	27,756	53.06	22,931	55.28
	Foreign	20,856	42.60	22,238	45.13	23,331	44.61	17,766	42.15
	Unknown	1,220	2.49	995	2.02	1,219	2.33	899	2.16

a Excluding cases where nativity of either parent is unknown.

The nativity of parents of children born in 1890 is given in Table 9 for every county in the State. The number of parents whose nativity was unknown is given as 784.

TABLE 9.—*Exhibiting, for the State and counties of Michigan, by sex, the parent nativity of children returned for the year 1890. (Still births included.)*

State and counties.	Sex.	Children born 1890.	Nativity of parents of children born in 1890.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father. Native.	Mother unknown. Father. Foreign.	Father unknown. Mother. Native.	Father unknown. Mother. Foreign.	Both unknown.
State	Totals	52,306	21,866	20,076	5,643	3,157	247	194	244	95	784
	Males	27,523	11,442	10,581	2,981	1,699	137	104	123	50	407
	Females	24,687	10,391	9,473	2,658	1,448	108	87	115	44	363
	Unknown	96	33	22	4	10	2	3	6	1	14
Alcona	Totals	105	18	58	18	10	.....	.....	1	.....	.....
	Males	53	15	23	8	6	.....	.....	1	.....	.....
	Females	51	3	34	10	4	.....	.....	.....	.....	.....
	Unknown	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Alger	Totals	18	6	10	.....	.....	1	.....	.....	.....	1
	Males	8	2	5	.....	.....	.....	.....	.....	.....	1
	Females	10	4	5	.....	.....	1	.....	.....	.....	.....
Allegan	Totals	618	422	84	66	34	1	2	8	.....	1
	Males	324	229	44	38	11	.....	.....	2	.....	.....
	Females	291	190	40	28	23	1	2	6	.....	1
	Unknown	3	3	.....	.....	.....	.....	.....	.....	.....	.....
Alpena	Totals	316	45	200	37	32	.....	.....	.....	.....	2
	Males	165	23	105	20	16	.....	.....	.....	.....	1
	Females	151	22	95	17	16	.....	.....	.....	.....	1
Antrim	Totals	174	71	56	24	20	.....	.....	.....	1	2
	Males	109	45	34	16	12	.....	.....	.....	1	1
	Females	64	26	22	8	8	.....	.....	.....	.....	.....
	Unknown	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Arenac	Totals	134	24	63	28	12	2	3	.....	1	1
	Males	61	17	21	13	6	.....	2	.....	1	1
	Females	73	7	42	15	6	2	1	.....	.....	.....
Baraga	Totals	87	26	41	9	1	1	1	2	.....	6
	Males	50	17	23	5	1	.....	1	.....	.....	3
	Females	37	9	18	4	.....	1	.....	2	.....	3
Barry	Totals	384	318	19	32	14	1	1	3	.....	5
	Males	195	163	4	15	8	1	1	1	.....	2
	Females	188	155	6	17	6	.....	.....	2	.....	2
	Unknown	1	.....	.....	.....	.....	.....	.....	.....	.....	1

TABLE 9.—CONTINUED.—*Births by counties, parent nativity, and sex.*

Counties.	Sex.	Children born 1890.	Nativity of parents of children born in 1890.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown.		Father unknown.		Both unknown.
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Bay	Totals	1,581	352	893	189	117	.....	1	7	7	15
	Males	787	172	450	95	58	.....	1	4	3	4
	Females	792	180	443	94	58	.....	.....	3	4	10
	Unknown	2	.....	.....	.....	1	.....	.....	.....	.....	1
Benzie	Totals	107	65	24	7	4	1	1	3	.....	2
	Males	51	23	18	2	3	1	1	2	.....	1
	Females	56	42	6	5	1	.....	.....	1	.....	1
Berrien	Totals	699	459	130	49	25	14	6	4	1	11
	Males	355	236	71	20	9	6	3	3	1	6
	Females	342	223	59	29	16	6	3	1	.....	5
	Unknown	2	.....	.....	.....	.....	2	.....	.....	.....	.....
Branch	Totals	361	299	18	26	12	2	.....	3	.....	1
	Males	181	145	7	16	8	2	.....	2	.....	1
	Females	180	154	11	10	4	.....	.....	1	.....	.....
Calhoun	Totals	592	434	60	47	29	.....	.....	4	2	16
	Males	321	234	31	23	21	.....	.....	3	1	8
	Females	269	198	29	24	8	.....	.....	1	1	8
	Unknown	2	2	.....	.....	.....	.....	.....	.....	.....	.....
Cass	Totals	312	270	14	16	5	2	.....	4	.....	1
	Males	159	138	8	8	2	1	.....	2	.....	.....
	Females	145	128	6	8	2	1	.....	.....	.....	.....
	Unknown	8	4	.....	.....	1	.....	.....	2	.....	1
Charlevoix	Totals	168	69	37	32	12	1	.....	1	.....	11
	Males	80	32	17	15	8	1	.....	1	.....	6
	Females	83	37	20	17	4	.....	.....	.....	.....	5
Cheboygan	Totals	319	83	170	38	24	1	2	.....	.....	1
	Males	167	49	87	22	6	1	1	.....	.....	1
	Females	152	34	83	16	18	.....	1	.....	.....	.....
Chippewa	Totals	208	44	126	17	17	.....	.....	1	1	2
	Males	111	24	67	7	11	.....	.....	1	1	.....
	Females	92	20	56	10	6	.....	.....	.....	.....	.....
	Unknown	5	.....	3	.....	.....	.....	.....	.....	.....	2

TABLE 9.—CONTINUED.—*Births by counties, parent nativity, and sex.*

Counties.	Sex.	Children born 1890.	Nativity of parents of children born in 1890.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father. Native.	Mother unknown. Father. Foreign.	Father unknown. Mother. Native.	Father unknown. Mother. Foreign.	Both unknown.
Clare	Totals	114	52	28	20	7	.....	.....	3	.....	4
	Males	71	30	21	10	5	.....	.....	2	.....	3
	Females	43	22	7	10	2	.....	.....	1	.....	1
Clinton	Totals	476	344	44	47	25	4	.....	4	1	7
	Males	249	187	22	21	11	3	.....	1	.....	4
	Females	226	156	22	26	14	1	.....	3	1	3
	Unknown	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Crawford	Totals	47	18	17	10	1	.....	.....	1	.....	.....
	Males	27	10	9	8	.....	.....	.....	.....	.....	.....
	Females	20	8	8	2	1	.....	.....	1	.....	.....
Delta	Totals	472	103	231	63	27	12	18	2	5	11
	Males	215	46	106	27	12	10	6	1	4	3
	Females	257	57	125	36	15	2	12	1	1	8
Eaton	Totals	435	370	13	19	14	12	1	5	.....	1
	Males	224	196	3	10	5	7	1	1	.....	1
	Females	206	171	10	9	8	5	.....	3	.....	.....
	Unknown	5	3	.....	.....	1	.....	.....	1	.....	.....
Emmet	Totals	104	69	14	12	7	.....	.....	2	.....	.....
	Males	53	32	10	6	4	.....	.....	1	.....	.....
	Females	50	36	4	6	3	.....	.....	1	.....	.....
	Unknown	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Genesee	Totals	479	329	50	46	35	10	1	1	1	6
	Males	238	168	28	21	14	3	1	.....	.....	3
	Females	239	161	22	25	21	7	.....	1	.....	2
	Unknown	2	.....	.....	.....	.....	.....	.....	.....	1	1
Gladwin	Totals	18	8	6	2	2	.....	.....	.....	.....	.....
	Males	9	4	2	1	2	.....	.....	.....	.....	.....
	Females	9	4	4	1	.....	.....	.....	.....	.....	.....
Gogebic	Totals	227	46	136	19	10	2	8	1	.....	5
	Males	144	29	88	10	7	2	5	.....	.....	3
	Females	83	17	48	9	3	.....	3	1	.....	2
G'd Traverse	Totals	207	113	45	26	19	.....	.....	1	2	1
	Males	114	58	23	17	14	.....	.....	1	1	.....
	Females	93	55	22	9	5	.....	.....	.....	1	1

TABLE 9.—CONTINUED.—*Births by counties, parent nativity, and sex.*

Counties.	Sex.	Children born 1890.	Nativity of parents of children born in 1890.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father. Native.	Mother unknown. Father. Foreign.	Father unknown. Mother. Native.	Father unknown. Mother. Foreign.	Both unknown.
Gratiot	Totals	407	325	20	37	17	5	1	1	1	----
	Males	206	166	10	17	7	3	1	1	1	----
	Females	200	159	10	19	10	2	----	----	----	----
	Unknown	1	----	----	1	----	----	----	----	----	----
Hillsdale	Totals	349	271	9	12	9	8	2	5	----	33
	Males	178	139	3	7	5	1	----	1	----	22
	Females	171	132	6	5	4	7	2	4	----	11
Houghton	Totals	1,279	129	905	178	53	2	3	3	4	2
	Males	654	53	473	95	27	1	2	2	1	----
	Females	620	73	431	83	25	1	1	1	3	2
	Unknown	5	3	1	----	1	----	----	----	----	----
Huron	Totals	738	116	410	135	64	3	5	4	----	1
	Males	389	63	220	71	29	2	3	1	----	1
	Females	347	53	188	64	35	1	2	3	----	----
	Unknown	2	----	2	----	----	----	----	----	----	----
Ingham	Totals	595	398	107	42	31	4	2	3	1	7
	Males	309	220	53	21	10	1	1	2	----	1
	Females	286	178	54	21	21	3	1	1	1	6
Ionia	Totals	433	330	43	25	23	6	2	4	----	----
	Males	215	166	21	9	11	4	1	3	----	----
	Females	217	164	22	16	11	2	1	1	----	----
	Unknown	1	----	----	----	1	----	----	----	----	----
Iosco	Totals	305	56	179	39	24	1	----	----	----	6
	Males	146	30	84	17	12	----	----	----	----	3
	Females	158	26	95	22	12	1	----	----	----	2
	Unknown	1	----	----	----	----	----	----	----	----	1
Iron	Totals	----	----	----	----	----	----	----	----	----	----
	Males	----	----	----	----	----	----	----	----	----	----
	Females	----	----	----	----	----	----	----	----	----	----
Isabella	Totals	447	245	106	60	32	----	1	2	----	1
	Males	227	111	69	26	20	----	----	1	----	----
	Females	220	134	37	34	12	----	1	1	----	1
Jackson	Totals	586	388	102	44	26	8	7	2	----	9
	Males	295	188	55	28	14	2	2	1	----	5
	Females	291	200	47	16	12	6	5	1	----	4

TABLE 9.—CONTINUED.—*Births by counties, parent nativity, and sex.*

Counties.	Sex.	Children born 1890.	Nativity of parents of children born in 1890.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father. Native.	Mother unknown. Father. Foreign.	Father unknown. Mother. Native.	Father unknown. Mother. Foreign.	Both unknown.
Kalamazoo	Totals	632	395	137	55	37	1	.....	3	1	3
	Males	321	199	67	31	21	.....	.....	1	1	1
	Females	311	196	70	24	16	1	.....	2	.....	2
Kalkaska	Totals	78	45	8	14	11	.....	.....	.....	.....	.....
	Males	44	26	5	6	7	.....	.....	.....	.....	.....
	Females	34	19	3	8	4	.....	.....	.....	.....	.....
Kent	Totals	2,414	909	962	255	165	24	23	18	5	53
	Males	1,252	466	495	139	86	14	13	7	3	29
	Females	1,150	435	467	115	79	10	9	11	2	22
	Unknown	12	8	.....	1	.....	.....	1	.....	.....	2
Keweenaw	Totals	113	13	75	23	2	.....	.....	.....	.....	.....
	Males	57	7	41	8	1	.....	.....	.....	.....	.....
	Females	56	6	34	15	1	.....	.....	.....	.....	.....
Lake	Totals	41	18	11	7	4	1	.....	.....	.....	.....
	Males	21	9	6	4	1	1	.....	.....	.....	.....
	Females	20	9	5	3	3	.....	.....	.....	.....	.....
Lapeer	Totals	432	191	111	81	42	2	4	.....	.....	1
	Males	235	106	58	41	28	.....	2	.....	.....	.....
	Females	197	85	53	40	14	2	2	.....	.....	1
Leelanau	Totals	214	77	81	39	16	.....	.....	1	.....	.....
	Males	117	40	45	24	7	.....	.....	1	.....	.....
	Females	97	37	36	15	9	.....	.....	.....	.....	.....
Lenawee	Totals	600	447	73	43	27	5	2	2	.....	1
	Males	307	225	39	23	13	5	1	.....	.....	1
	Females	292	221	34	20	14	.....	1	2	.....	.....
	Unknown	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Livingston	Totals	269	205	30	22	12	.....	.....	.....	.....	.....
	Males	142	114	11	9	8	.....	.....	.....	.....	.....
	Females	127	91	19	13	4	.....	.....	.....	.....	.....
Luce	Totals	48	6	34	2	6	.....	.....	.....	.....	.....
	Males	25	3	17	1	4	.....	.....	.....	.....	.....
	Females	23	3	17	1	2	.....	.....	.....	.....	.....

TABLE 9.—CONTINUED.—*Births by counties, parent nativity, and sex.*

Counties.	Sex.	Children born 1890.	Nativity of parents of children born in 1890.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father. Native.	Mother unknown. Father. Foreign.	Father unknown. Mother. Native.	Father unknown. Mother. Foreign.	Both unknown.
Mackinac	Totals	94	34	42	12	4		1			1
	Males	52	17	22	9	2		1			1
	Females	42	17	20	3	2					
Macomb	Totals	609	318	141	100	47	3				
	Males	300	148	68	63	19	2				
	Females	309	170	73	37	28	1				
Manistee	Totals	668	119	440	59	29	1	1	2	3	14
	Males	350	52	242	27	19		1	1	1	7
	Females	311	67	192	32	9	1		1	2	7
	Unknown	7		6		1					
Manitou	Totals	15	5	6	3				1		
	Males	6	1	2	2				1		
	Females	9	4	4	1						
Marquette	Totals	1,234	128	966	76	42			2		20
	Males	655	61	518	36	23			2		15
	Females	579	67	448	40	19					5
Mason	Totals	424	129	209	46	35			2	2	1
	Males	231	62	127	16	21			2	2	1
	Females	193	67	82	30	14					
Mecosta	Totals	346	178	88	43	33	1		2		1
	Males	185	89	44	28	22	1		1		
	Females	161	89	44	15	11			1		1
Menominee	Totals	1,148	182	800	112	33	2	3	3	3	10
	Males	631	108	435	58	20			1	3	6
	Females	512	73	363	54	13	2	3	2		3
	Unknown	5	1	2							2
Midland	Totals	184	85	49	19	26				1	4
	Males	89	43	22	10	11				1	2
	Females	95	42	27	9	15					2
Missaukee	Totals	157	46	79	23	7			1		1
	Males	89	31	41	13	3					1
	Females	68	15	38	10	4			1		

TABLE 9.—CONTINUED.—*Births by counties, parent nativity, and sex.*

Counties.	Sex.	Children born 1890.	Nativity of parents of children born in 1890.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father. Native.	Mother unknown. Father. Foreign.	Father unknown. Mother. Native.	Father unknown. Mother. Foreign.	Both unknown.
Monroe	Totals	632	493	47	57	34	.....	.....	1	.....	.....
	Males	344	272	23	29	20	.....	.....	.....	.....	.....
	Females	288	221	24	28	14	.....	.....	1	.....	.....
Montcalm	Totals	521	311	106	59	39	.....	.....	2	2	2
	Males	286	168	59	31	24	.....	.....	1	2	1
	Females	235	143	47	28	15	.....	.....	1	.....	1
Montmorency	Totals	37	6	24	5	2	.....	.....	.....	.....	.....
	Males	24	4	15	3	2	.....	.....	.....	.....	.....
	Females	13	2	9	2	.....	.....	.....	.....	.....	.....
Muskegon	Totals	1,026	298	534	128	58	1	.....	3	4	.....
	Males	551	146	291	75	37	.....	.....	1	1	.....
	Females	472	152	242	53	19	1	.....	2	3	.....
	Unknown	3	.....	1	.....	2	.....	.....	.....	.....	.....
Newaygo	Totals	347	186	88	38	18	3	2	5	.....	7
	Males	182	96	51	18	8	3	2	2	.....	2
	Females	163	89	37	20	10	.....	.....	2	.....	5
	Unknown	2	1	.....	.....	.....	.....	.....	1	.....	.....
Oakland	Totals	505	350	53	52	31	10	6	.....	1	2
	Males	269	185	31	26	14	8	5	.....	.....	.....
	Females	235	165	22	26	17	2	.....	.....	1	2
	Unknown	1	.....	.....	.....	.....	.....	1	.....	.....	.....
Oceana	Totals	250	152	43	22	18	2	1	3	.....	9
	Males	136	81	24	14	9	.....	1	1	.....	6
	Females	112	69	19	8	9	2	.....	2	.....	3
	Unknown	2	2	.....	.....	.....	.....	.....	.....	.....	.....
Ogemaw	Totals	88	25	38	12	11	.....	.....	.....	.....	2
	Males	45	14	15	9	7	.....	.....	.....	.....	.....
	Females	42	11	22	3	4	.....	.....	.....	.....	2
	Unknown	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Ontonagon	Totals	64	32	12	17	2	.....	1	.....	.....	.....
	Males	30	13	6	9	2	.....	.....	.....	.....	.....
	Females	34	19	6	8	.....	.....	1	.....	.....	.....

TABLE 9.—CONTINUED.—*Births by counties, parent nativity, and sex.*

Counties.	Sex.	Children born 1890.	Nativity of parents of children born in 1890.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father. Native.	Mother unknown. Father. Foreign.	Father unknown. Mother. Native.	Father unknown. Mother. Foreign.	Both unknown.
Osceola	Totals	366	196	109	42	27					2
	Males	197	100	53	24	19					1
	Females	169	96	56	15	8					1
Oscoda	Totals	20	14	1	4	1					
	Males	12	7	1	4						
	Females	8	7			1					
Otsego	Totals	45	13	16	9	6					1
	Males	25	8	10	4	2					1
	Females	20	5	6	5	4					
Ottawa	Totals	846	320	321	121	78	1		1		4
	Males	444	170	165	62	43	1				3
	Females	402	150	156	59	35			1		1
Presque Isle	Totals	117	22	87	4	1		3			
	Males	52	11	37	1	1		2			
	Females	65	11	50	3			1			
Roscommon	Totals	37	11	14	9	3					
	Males	20	6	7	5	2					
	Females	17	5	7	4	1					
Saginaw	Totals	2,028	644	857	320	158	1		7	6	35
	Males	1,039	338	436	155	84			5	2	19
	Females	988	306	420	165	74	1		2	4	16
	Unknown	1		1							
Sanilac	Totals	741	164	361	131	71	2	7	1	1	3
	Males	396	87	184	77	40	2	4		1	1
	Females	344	77	177	54	31		2	1		2
	Unknown	1						1			
Schoolcraft	Totals	60	9	41	6	3					1
	Males	26	5	17	2	2					
	Females	34	4	24	4	1					1
Shiawassee	Totals	385	246	56	45	26	6	1		2	3
	Males	197	129	28	24	11	3			1	1
	Females	188	117	28	21	15	3	1		1	2

TABLE 9.—CONTINUED.—*Births by counties, parent nativity, and sex.*

Counties.	Sex.	Children born 1890.	Nativity of parents of children born in 1890.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father. Native.	Mother unknown. Father. Foreign.	Father unknown. Mother. Native.	Father unknown. Mother. Foreign.	Both unknown.
St. Clair	Totals	989	365	307	167	125	4	3	9	2	7
	Males	484	180	141	93	61	1	.....	3	2	3
	Females	500	184	165	73	64	3	3	4	.....	4
	Unknown	5	1	1	1	.....	.....	.....	2	.....	.....
St. Joseph	Totals	374	286	31	29	14	10	1	.....	.....	3
	Males	177	136	16	14	8	3	.....	.....	.....	.....
	Females	195	150	15	15	4	7	1	.....	.....	3
	Unknown	2	.....	.....	.....	2	.....	.....	.....	.....	.....
Tuscola	Totals	541	246	141	80	68	.....	.....	3	.....	3
	Males	273	122	69	38	40	.....	.....	2	.....	2
	Females	268	124	72	42	28	.....	.....	1	.....	1
Van Buren	Totals	522	436	24	36	18	1	.....	.....	.....	7
	Males	269	219	17	16	10	1	.....	.....	.....	6
	Females	253	217	7	20	8	.....	.....	.....	.....	1
Washtenaw	Totals	546	318	110	47	40	.....	1	1	.....	29
	Males	287	166	55	30	18	.....	1	1	.....	16
	Females	258	152	55	17	22	.....	.....	.....	.....	12
	Unknown	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Wayne	Totals	17,372	6,365	7,776	1,680	921	62	66	86	34	382
	Males	9,374	3,439	4,170	913	514	40	38	49	15	196
	Females	7,990	2,924	3,603	766	407	22	28	37	19	184
	Unknown	8	2	3	1	.....	.....	.....	.....	.....	2
Wexford	Totals	231	123	78	18	12	.....	.....	.....	.....	.....
	Males	135	73	40	12	10	.....	.....	.....	.....	.....
	Females	96	50	38	6	2	.....	.....	.....	.....	.....

TWIN CHILDREN, 1890.

The number of twin children born in 1890 was 1,542, of which 720 were males and 816 females. April heads the list with the highest number of births, and September si the last with the lowest. The average number a month was 128. The number of twins born in 1889 was 1,054 and the average month was 88.

TABLE 10.—*Exhibiting, by sex, the number of pairs of twins and twin children returned for the year 1890.*

Year and months, 1890.		No. of twin children, 1890.					No. of pairs of twins, 1890.						
		Totals.	Males.	Females.	Males to 100 females.	Unknown.	Totals.	Males.	Females.	One of each sex.	Males to 100, one of each sex.	Males to 100 females.	Unknown.
Year 1890		1,542	720	816	882	.....	771	203	251	314	64	80	3
More than the Av. No. of twins.	April	178	87	91	95	.....	89	28	30	31	90	93	.....
	January	172	86	86	100	.....	86	22	22	42	52	100	.....
	February	148	65	83	78	.....	74	15	24	35	42	62	.....
	May	148	62	82	75	.....	74	17	27	28	60	62	2
	March	142	54	88	61	.....	71	16	33	22	72	48	.....
Average		128	60	68	.....	.....	64	16	20	72	.....	.....	.....
Less than the average number of twins.	July	128	61	67	91	.....	64	16	19	29	55	84	.....
	June	120	50	70	71	.....	60	12	22	26	46	54	.....
	August	112	62	50	124	.....	56	21	15	20	105	140	.....
	December	104	52	62	100	.....	52	16	16	20	80	100	.....
	October	100	46	54	85	.....	50	12	16	22	54	75	.....
	November	96	48	46	104	.....	48	15	14	18	83	107	1
	September	94	47	47	100	.....	47	13	13	21	61	100	.....

Table 11 gives the parent nativity of the twin children born during the year 1890. As usual it will be seen that the children of foreign born parents considerably exceed those of the native born parents. This has been true every year.

TABLE 11.—*Parent nativity of twins returned in Michigan for 1890.*

Nativity of parents of twins, 1890.	Pairs of twins, 1890.									
	Number.					Per cent of each parent nativity to total of all nativities.				
	Totals.	Males.	Females.	One of each.	Unknown.	Totals.	Males.	Females.	One of each.	Unknown.
All nativities	771	203	251	314	3	100.00	100.00	100.00	100.00	100.00
Both native born	214	55	82	76	1	27.75	27.09	32.67	24.20	33.33
Both foreign born	449	108	139	202	....	58.24	53.20	55.38	64.33	.....
Foreign father and native mother	62	20	19	23	....	8.04	9.85	7.57	7.32	.....
Foreign mother and native father	36	18	8	9	1	4.67	8.86	3.18	2.87	33.33
Unknown mother, father native	2	....	1	1	....	.26	.....	.40	.32	.....
Unknown mother, father foreign	....	....	....	....	....	.....	.....	.....	.....	.....
Unknown father, mother native	2	....	1	....	1	.26	.....	.40	.....	33.34
Unknown father, mother foreign	3	1	....	2	....	.39	.50	.....	.64	.....
Both unknown	3	1	1	1	....	.39	.50	.40	.32	.....
One or both native	316	93	110	109	2	40.98	45.81	43.82	34.71	66.66
One or both foreign	550	147	166	236	1	71.33	72.41	66.13	75.15	33.33

The proportion of twin births by nativity and color of mothers for each of the years 1888, 1889 and 1890, and the average for ten years 1880-1889 is given in table 12, which bears out the evidence concerning the nativity of mothers of twins given in table 11.

TABLE 12.—*By nativity and color of mothers, the number and proportion of twin births returned for the years 1888–1890 and the average for ten years, 1880–1889.*

Nativity and color of mothers of twins 1888–1890.	1888.			1889.			1890.			Average for 10 years, 1880–1889.		
	Number of pairs of twins.	Whole No. of mothers including those of twins.	Per cent of births of twins to all mothers.	Number of pairs of twins.	Whole No. of mothers including those of twins.	Per cent of births of twins to all mothers.	Number of pairs of twins.	Whole No. of mothers including those of twins.	Per cent of births of twins to all mothers.	Number of pairs of twins.	Whole No. of mothers including those of twins.	Per cent of births of twins to all mothers.
Mothers of all colors and all nativities	583	48,350	1.20	527	48,727	1.08	771	51,517	1.50	469	41,114	114
All native born mothers	286	26,582	1.07	252	25,775	.98	278	27,469	1.01	243	22,681	108
All foreign born mothers	288	20,557	1.40	274	21,958	1.25	488	22,824	2.14	218	17,541	123
Mothers of unknown nativities	9	1,211	.74	1	994	.10	5	1,214	.41	8	892	87
White	577	47,867	1.20	517	48,299	1.07	750	50,992	1.47	461	40,706	113
Black	1	234	.43	5	201	2.49	18	324	5.56	3	152	224
Mulatto	1	106	.94	4	65	6.15	1	79	1.27	3	92	275
Indian	4	126	3.17	1	109	.91	* 1	107	.93	2	120	157
Unknown	.....	17	.....	.....	53	.....	1	15	6.67	.....	44	238
Black and Mulatto	2	340	.58	9	266	3.38	19	403	4.71	6	244	249

* White and Indian.

TRIPLETS AND QUADRUPLETS.

In Table 13 the number of triplet and quadruplet births is given. For 1889 no case of quadruplet birth was returned. The parentage was equally divided as to native and foreign born.

TABLE 13.—*Exhibiting certain details concerning triplet children returned for the year 1890.*

Counties.	Triplets and quadruplets.					Parents of triplets.		
	Month of birth, 1890.	Color.	Sex.			Birthplace of father.	Birthplace of mother.	Occupation of father.
			Male.	Female.	Unknown.			
Cass	July	Indian		3		Michigan	Michigan	Farmer.
Eaton	Jan.	White	2	1		Ohio	Ohio	Laborer.
Grand Traverse	Dec.	White	1	2		Canada	Canada	Laborer.
Menominee	Jan.	White	3	1		Canada	Wisconsin	Farmer.
Muskegon	Oct.	White	* 2	* 1		Wisconsin	Michigan	Sawyer.
Wayne	Aug.	White	1	2		Germany	Germany	Laborer.

* Still born.

The number of pairs of twins and sets of triplets returned for the years 1877 and 1890 inclusive are given in Table 14, with certain comparisons with all births.

TABLE 14.—*Exhibiting the number of pairs of twins and cases of triplets returned in Michigan for the 14 years, 1877–1890, and the average for these years.*

Years.	Pairs of twins.	Cases of triplets.	No. of births to one pair of twins.	No. of births to one case of triplets.
1877	367		91	33,395
1878	427	3	82	11,721
1879	402	2	85	17,081
1880	358	5	99	7,065
1881	372	5	93	6,950
1882	430	9	86	4,114
1883	466	9	88	4,534
1884	450	4	90	10,102
1885	481	7	88	6,017
1886	501	6	82	6,849
1887	528	5	88	9,245
1888	583	8	84	6,119
1889	527	6	93	8,212
1890	771	* 6	68	8,718
Average	476	5	87	10,007

* 1 set of quadruplets included.

The record for fourteen years for plural births with parent nativity is given in the following table. It will be seen that the foreign element predominates in every instance.

TABLE 15.—*Exhibiting the parent nativity of plural births returned in Michigan for the fourteen years, 1877–1890.*

Years.	Totals.	Native born.		Foreign born.		Mixed.		Unknown.	
		Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
1877	734	334	45.51	252	34.33	122	16.62	26	3.54
1878	863	402	46.58	291	33.72	142	16.45	28	3.25
1879	810	374	46.17	236	29.14	188	23.21	12	1.48
1880	731	341	46.65	276	37.75	104	14.23	10	1.37
1881	759	355	46.77	270	35.57	124	16.34	10	1.32
1882	887	350	39.46	358	40.36	153	17.25	26	2.93
1883	959	417	43.48	364	37.96	150	15.64	28	2.92
1884	912	360	39.47	396	43.42	144	15.79	12	1.32
1885	983	384	39.06	414	42.12	155	15.77	30	3.05
1886	1,020	419	41.08	407	39.90	176	17.26	18	1.76
1887	1,071	448	41.83	423	39.49	168	15.69	32	2.99
1888	1,194	485	40.62	530	44.39	159	13.32	20	1.67
1889	1,072	410	38.25	486	45.34	172	16.04	4	.37
1890	* 1,561	437	28.00	904	57.91	214	13.70	6	.38
Average	968	394	41.63	400	40.10	155	16.23	18	2.02

* Includes 5 cases of triplets, and 1 of quadruplets.

STILL BIRTHS, 1890.

The number of still births returned for 1890 was 1,397. This is more than for 1889, and also more than for 1888.

TABLE 16.—*The relation of still births to all births and the relation of mothers of still born children to all mothers returned for the years 1887–1890, and the average for ten years, 1880–1889.*

Children and mothers.	Total births and still births.				
	1887.	1888.	1889.	1890.	Av. for 10 years, 1880–1889.
All children born	46,226	48,952	49,272	52,306	41,598
Still born children	897	1,358	1,202	1,397	940
Per cent of still born to total	1.94	2.77	2.43	2.67	2.26
All mothers	45,688	48,350	48,727	51,517	41,114
Mothers of still born children	869	1,322	1,167	1,279	915
Per cent of mothers of still born children to all mothers	1.90	2.73	2.39	2.48	2.22

The nativity and color of the mothers of still born children are given in Table 17. The per cent of native born mothers is, as usual, the lowest, while there were none for the Mulatto and Indian mothers.

TABLE 17.—*By nativity and color, the number and proportion of mothers having still births, for the year 1888–1890, and the average for ten years, 1880–1889.*

Nativity and color of mothers.	1888.			1889.			1890.			Average for 10 years, 1880-1889.		
	Mothers having still births.	Whole No. of mothers including those of still births.	Per cent of mothers of still births to all mothers.	Mothers having still births.	Whole No. of mothers including those of still births.	Per cent of mothers of still births to all mothers.	Mothers having still births.	Whole No. of mothers including those of still births.	Per cent of mothers of still births to all mothers.	Mothers having still births.	Whole No. of mothers including those of still births.	Per cent of mothers of still births to all mothers.
Mothers of all colors and all nativities	1,322	48,350	2.73	1,167	48,727	2.39	1,279	51,517	2.48	915	41,114	2.20
All native born mothers	604	26,582	2.27	512	25,570	2.00	507	27,469	1.85	418	22,681	1.83
All foreign born mothers	539	20,557	2.62	495	21,861	2.26	542	22,834	2.37	367	17,541	2.08
Mothers of unknown nativities	179	1,211	14.78	160	1,296	12.35	230	1,214	18.95	130	892	13.95
White	1,288	47,867	2.69	1,141	48,299	2.36	1,220	50,992	2.39	891	40,706	2.17
Black	17	234	7.26	19	201	9.45	53	324	16.36	9	152	5.91
Mulatto	6	106	5.66	3	65	4.62	.....	79	.....	3	92	3.58
Indian	3	126	2.38	.....	109	.....	.....	107	.....	2	120	1.28
Unknown	8	17	47.06	4	53	7.55	6	15	40.00	10	44	32.45
Black and Mulatto	23	340	6.76	22	266	8.27	53	403	13.15	12	244	5.09

TABLE 20.—*Exhibiting the proportion of males to females among children born alive, still births and illegitimates.*

		1889.	1890.	Average for 10 years, 1880-1889.
Born alive	Males	24,950	26,766	21,121
	Females	23,099	24,100	18,646
	Unknown	21	43	34
Males to 100 females		108	111	113
Still born	Males	692	757	538
	Females	483	587	365
	Unknown	27	53	36
Males to 100 females		143	129	147
Illegitimate	Males	200	232	176
	Females	219	217	182
	Unknown	2	6	1
Males to 100 females		91	107	97

ILLEGITIMATE CHILDREN, 1890.

Table 21 gives the number of illegitimate births for 1887–1890 inclusive. There were 455 such births returned for 1890. A ratio of about 8.70 to each one thousand of the whole number of births returned.

TABLE 21.—*The relation of illegitimate children to all children born for the years 1887–1890, and the average for ten years, 1880–1889.*

Children and mothers.	Total births and illegitimates.				
	1887.	1888.	1889.	1890.	Average for 10 years, 1880-1889.
All children born	46,226	48,952	49,272	52,306	41,598
Illegitimate children	422	591	421	455	359
Per cent of illegitimates to total	.91	1.20	.84	.87	.86
All mothers	45,688	48,350	48,727	51,517	41,114
Mothers of illegitimate children	418	590	419	450	357
Per cent of mothers of illegitimates to all mothers	.91	1.22	.84	.87	.86

In Table 22 are presented the statistics concerning the nativity and color of mothers of illegitimate children for several years. The proportion of white mothers is seen to be the lowest in every case. The Indian mothers show the highest proportion of such births, and the black mothers rank next.

TABLE 22.—*By nativity and color, the number and proportion of mothers of illegitimates returned for the years 1888-1890 and the average for ten years, 1880-1889.*

Nativity and color of mothers.	1888.			1889.			1890.			Average for 10 years, 1880-1889.		
	Mothers having illegitimates.	Whole No. of mothers including those of illegitimates.	Per cent of mothers of illegitimates to all mothers.	Mothers having illegitimates.	Whole No. of mothers including those of illegitimates.	Per cent of mothers of illegitimates to all mothers.	Mothers having illegitimates.	Whole No. of mothers including those of illegitimates.	Per cent of mothers of illegitimates to all mothers.	Mothers having illegitimates.	Whole No. of mothers including those of illegitimates.	Per cent of mothers of illegitimates to all mothers.
Mothers of all colors and nativities	590	48,350	1.22	419	48,727	.86	450	51,517	.87	356	41,114	.87
All native born mothers	149	26,582	.56	126	25,775	.49	145	27,469	.53	139	22,681	.62
All foreign born mothers	71	20,557	.34	73	21,958	.33	76	22,834	.33	74	17,541	.44
Mothers of unknown nativities	370	1,211	30.55	220	994	22.13	229	1,214	18.86	143	892	15.42
White	571	47,867	1.19	404	48,299	.84	417	50,992	.82	332	40,706	.81
Black	12	234	5.12	7	201	3.48	17	324	5.25	7	152	4.52
Mulatto	2	106	1.88	4	65	6.15	3	79	3.80	3	92	4.12
Indian	5	126	3.96	2	109	1.83	8	107	7.48	6	120	4.93
Unknown	.....	17	.....	2	63	3.18	5	15	33.33	8	44	7.56
Black and Mulatto	14	340	4.11	11	266	4.14	20	403	4.96	10	244	4.21

TABLE 23.—*Exhibiting by sex, the number by months, and the nativity of parents of illegitimates returned for the year 1890.*

Sex of illegitimates, 1890.	Year, 1890.	Months, 1890.													Nativity of mothers of illegitimates, 1890.							Nativity of fathers of illegitimates, 1890.						
															Native.			Foreign.				Native.			Foreign.			
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Totals.	Born in Michigan.	Born in other states.	Totals.	Born in Canada.	Born in other countries.	Unknown.	Totals.	Born in Michigan.	Born in other states.	Totals.	Born in Canada.	Born in other countries.	Unknown.
Totals	455	38	27	45	41	33	43	44	46	35	33	32	37	1	150	125	25	76	26	50	229	64	57	7	39	12	27	352
Males	232	20	16	23	21	18	22	22	25	15	16	19	15	....	76	59	17	42	15	27	114	31	26	5	20	6	14	181
Females	217	18	11	22	20	15	21	20	21	20	17	11	20	1	70	62	8	33	10	23	114	33	31	2	19	6	13	165
Unknown	6	....	....	....	....	....	....	2	....	....	....	2	2	....	4	4	....	1	1	....	1	....	....	....	....	....	....	6

LE 24.—*Exhibiting the number and ratio of illegitimate births returned in fourteen years, 1877–1890.*

Years.	Children born out of wedlock.		Years.	Children born out of wedlock.	
	Number.	To every 1,000 births.		Number.	To every 1,000 births.
.....	316	9.46	1884.....	193	4.78
.....	202	5.74	1885.....	248	5.89
.....	292	8.56	1886.....	300	7.30
.....	245	12.03	1887.....	422	9.13
.....	382	10.99	1888.....	591	12.07
.....	301	8.13	1889.....	421	8.54
.....	311	7.62	1890.....	455	8.69
erage 14 years.....				363	8.50

ɔle 25 gives the nativity of mothers of illegitimate children as returned for the last ɔen years. Unless certain facts are taken into consideration it would appear that ıtive born mothers were more immoral than the foreign born mothers. It must be nbered that nearly all Indians and those of African descent are classed as native Also the difference in population, there being in Michigan 291,906 native born es between the ages of 15 and 45 to 125,373 foreign born females of the same age.

LE 25.—*Showing the nativity of mothers of illegitimates returned for the fourteen years, 1877–1890.*

Years.	Totals.	Native.		Foreign.		Unknown.	
		Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
.....	* 316	161	50.95	80	25.32	75	23.73
.....	202	114	56.44	34	16.83	54	26.73
.....	292	137	46.92	90	13.82	65	22.26
.....	425	148	34.82	73	17.18	204	48.00
.....	382	187	48.95	98	25.65	97	25.40
.....	301	145	48.17	77	25.58	79	26.25
.....	311	137	44.05	86	27.65	88	28.30
.....	193	103	53.37	69	35.75	21	10.88
.....	248	115	46.37	86	34.68	47	18.95
.....	300	142	47.33	45	15.00	113	36.67
.....	422	151	35.78	72	17.06	199	47.16
.....	591	149	25.21	72	12.18	370	62.61
.....	419	126	30.08	73	17.42	220	52.51
.....	450	148	32.88	73	16.22	229	50.88
erage.....	346	140	42.95	73	21.45	133	34.31

ıral births deducted.

TABLE 26.—*Exhibiting, by sex and color, the population of 1884, the number of illegitimates returned for the year 1890, and the per cent of such children to inhabitants.*

Color or race.	Sex.	Population in 1884 represented by births in 1890.	Total illegitimate births in 1890.	Per cent of births to population.	Per cent of each sex to total of both sexes.	Number of inhabitants to one illegitimate child of the same color.
All colors	Totals	1,839,137	455	.02	.....	4,042
	Males	966,267	232	.02	50.99	4,164
	Females	872,664	217	.02	47.70	4,021
	Unknown	206	6	2.86	1.31	34
White	Totals	1,816,523	422	.02	.....	4,304
	Males	954,556	218	.02	51.66	4,378
	Females	861,967	199	.02	47.16	4,331
	Unknown	10	5	.50	1.18	2
Black	Totals	6,845	17	2.48	.....	403
	Males	3,685	9	.24	52.94	409
	Females	3,160	8	.25	47.06	395
Mulatto	Totals	8,267	3	.03	.....	2,755
	Males	4,211	1	.02	33.33	4,211
	Females	4,056	2	.04	66.67	2,028
Indian	Totals	6,467	8	.12	.....	808
	Males	3,267	2	.05	25.00	1,633
	Females	3,200	* 6	.19	75.00	533
Chinese	Totals	983	5	.51	.....	196
	Males	388	2	.51	40.00	194
	Females	381	2	.52	40.00	190
	Unknown	196	1	.51	20.00	196
Black and Mulatto	Totals	15,111	20	.13	.....	755
	Males	7,896	10	.12	.50	789
	Females	7,216	10	.13	.50	721

* 1 White and Indian.

TABLE 27.—*Exhibiting by counties, the number of pairs of twins, and the number of illegitimate and still born children returned for the year 1890.*

State and counties.	Number of pairs of twins born in 1890.	Number of illegitimate children born in 1890.	Number of still births in 1890.	Counties.	Number of pairs of twins born in 1890.	Number of illegitimate children born in 1890.	Number of still births in 1890.
State	771	455	1,397	Ingham	8		9
				Ionia	6	1	6
Alcona	1	2	2	Iosco	3	2	15
Alger		1		Iron			
Allegan	8	4	11	Isabella	6	5	8
Alpena	5		8	Isle Royal			
Antrim	3		4	Jackson	9	4	14
Arenac			3	Kalamazoo	5	1	8
Baraga		2	2	Kalkaska	2		
Barry	7	3	6	Kent	29	15	65
Bay	16	6	36	Keweenaw			5
Benzie	1	1	2	Lake			1
Berrien	11		16	Lapeer		1	8
Branch	4	1	11	Leelanaw	3	3	6
Calhoun	7	4	19	Lenawee	4	7	7
Cass	2	6	13	Livingston	5		4
Charlevoix	1		8	Luce			
Cheboygan	4		15	Mackinac			
Chippewa	1	1	6	Macomb	12	4	9
Clare		2	3	Manistee	6	5	20
Clinton	7	3	5	Manitou			
Crawford	1			Marquette	7	15	41
Delta	4		19	Mason	2	1	5
Eaton	4	2	9	Mecosta	1	2	1
Emmet	2	6	3	Menominee	11	4	32
Genesee	7	5	8	Midland	2	3	3
Gladwin		1		Missaukee	4		4
Gogebic	2		3	Monroe	5		17
Grand Traverse	2		3	Montcalm	8	3	5
Gratiot	6	2	10	Montmorency	1		
Hillsdale	2	2	4	Muskegon	11	4	25
Houghton	13	10	17	Newaygo	3		9
Huron	7	6	10	Oakland	3	2	7

TABLE 27.—CONTINUED.—*Births, 1890.*

Counties.	Number of pairs of twins born in 1890.	Number of illegitimate children born in 1890.	Number of still births in 1890.	Counties.	Number of pairs of twins born in 1890.	Number of illegitimate children born in 1890.	Number of still births in 1890.
Oceana	1	3	3	Sanilac	11	2	11
Ogemaw	1		1	Schoolcraft	2		10
Ontonagon				Shiawassee	6		5
Osceola	7	1	9	St. Clair	11	15	27
Oscoda				St. Joseph	4		6
Otsego			2	Tuscola	9	3	7
Ottawa	10		24	Van Buren	6	3	14
Presque Isle			3	Washtenaw	2	2	9
Roscommon				Wayne	391	263	586
Saginaw	24	10	84	Wexford	2	1	6

The following townships reported that no births occurred during 1890. Three of them were organized since last census. The rest show a population of 1,544.

TABLE 28.—*Townships in which it was reported there were no births in 1890.*

Counties.	Townships—no births in 1890.	Population in 1884.		
		Totals.	Males.	Females.
Totals		1,544	1,313	231
Alpena	Sanborn *			
Arenac	Turner *			
	Moffitt	143	84	59
Lake	Eden	71	46	25
	Glencoe	72	40	32
Missaukee	Forest	141	74	67
Ontonagon	Carp Lake	1,117	1,069	48
	Interior *			

* Organized since census was taken.

Table 29 shows the townships, and the counties in which they are located, from which no returns of births were received for the year 1890. As usual the supervisors failed to make the proper returns to the county clerk.

TABLE 29.—*Exhibiting the counties and townships from which no returns of births were received in 1890.*

Counties.	Townships from which no returns of births were received for 1890.	Population, June 1, 1884.			White.			Black and Mulatto.			Indian.			Unknown.			Native.			Foreign.			Unknown.		
		Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.
Totals		14,521	8,157	6,364	13,957	7,820	6,127	11	7	4	433	207	226	120	113	7	408	4,887	4,521	4,977	3,167	1,810	136	103	33
Alger	Burt *																								
Charlevoix	Chandler	164	86	78	164	86	78										140	68	72	24	18	6			
Chippewa	Sugar Island	446	219	227	318	162	156				109	45	64	19	12	7	226	105	121	173	90	83	47	24	23
	Trout Lake *																								
	White Fish *																								
Crawford	Ball	130	77	53	130	77	53										90	54	36	39	23	16	1		1
Emmet	Bear Creek	3,236	1,645	1,591	3,075	1,567	1,508	6	3	3	154	74	80	1	1		2,497	1,262	1,235	732	377	355	7	6	1
	Eggleston	114	57	57	114	57	57										85	44	41	29	13	16			
	Maple River	363	187	176	363	187	176										273	138	135	90	49	41			
Gladwin	Billings	83	50	33	83	50	33										59	33	26	24	17	7			
	Buckeye	102	63	39	102	63	39										77	44	33	25	19	6			
	Gladwin	373	209	164	361	203	158	1	1		11	5	6				202	116	86	171	93	78			
	Tobacco	99	59	40	99	59	40										88	54	34	11	5	6			
Iron *																									
Lake	Center	79	46	33	79	46	33										71	40	31	8	6	2			
	Plens. Plains	800	483	317	798	482	316	2	1	1							553	298	255	228	169	59	19	16	3
Mackinac	Cedar *																								
	Garfield	442	265	177	411	247	164				31	18	13				274	151	123	168	114	54			
	Holmes	856	446	410	654	294	† 360	1	1		101	51	50	100	100		687	349	338	166	94	72	3	3	

Menominee	Breen	307	186	121	286	176	110				21	10	11				162	79	83	145	107	38			
	Breitung	4,062	2,498	1,564	4,061	2.497	1,564	1	1								1,499	754	739	2,519	1,697	822	50	47	3
	Meyer *																								
Midland	Homer	458	262	196	452	258	194				6	4	2				377	213	164	81	49	32			
	Jasper	469	246	223	469	246	223										388	204	184	77	39	38	4	3	1
	Geneva	269	149	120	269	149	120										190	102	88	76	45	31	3	2	1
Montcalm	Crystal	1,338	682	656	1338	682	656										1,266	640	626	70	40	30	2	2	
Montmorenci	Albert	80	49	31	80	49	31										72	45	27	8	4	4			
Roscommon	Gerrish	251	193	58	251	193	58										138	94	44	113	99	14			

* Not organized when census was taken. † Includes 123 Chinese.

MARRIAGES, 1890.

For the year 1890 there were 18,577 marriages returned, or 277 more than for 1889, when 18,300 were returned. By comparing Tables 30 and 31 it will be seen that only sixteen marriages have been returned and added for 1889. Tracing back, the number will be found larger for every year, until several hundred were added annually.

The average number of marriages for the different divisions of the year may be found in Exhibit D of births, marriages and deaths, in the first part of this book.

In Table 30 the marriages for 1887 and 1890 inclusive, with a ten years' average, corrected up to recent date, are given.

TABLE 30.—*Marriages by quarters of the year for each of the years 1887–1890, and the average for ten years, 1880–1889. Corrected for additional returns up to April 9, 1891.*

Totals and months with which quarters end.	1887.		1888.		1889.		1890.		Average for 10 years, 1880–1889.	
	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
Totals	17,179	100.00	17,297	100.00	18,316	100.00	18,577	100.00	16,408	100.00
March	3,567	20.76	3,702	21.41	4,183	22.85	3,815	20.53	3,613	22.02
June	3,991	23.23	4,070	23.53	4,262	23.28	4,445	23.94	3,766	22.95
September	4,561	26.55	4,054	23.44	4,290	23.43	4,483	24.13	3,978	24.25
December	5,055	.....	5,464	31.57	5,578	30.42	5,832	31.39	5,046	30.75
Unknown	5	.03	7	.04	3	.02	2	.01	5	.03
Average a	4,295	25.00	4,323	25.00	4,575	25.00	4,644	25.00	4,102	25.00

a Including marriages in unknown quarter of the year.

Table 31 shows the number and proportion of marriages for each of the years 1887–1890 inclusive, as first returned, tabulated and published, without the corrections for additional returns.

TABLE 31.—*Marriages by quarters of the year for each of the years 1887–1890, and the average for ten years, 1880–1889, as originally returned and published in reports.*

Totals and months with which quarters end.	1887.		1888.		1889.		1890.		Average for 10 years, 1880–1889.	
	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
Totals	17,050	100.00	17,233	100.00	18,300	100.00	18,577	100.00	16,083	100.00
March	3,563	20.90	3,701	21.48	4,183	22.85	3,815	20.53	3,581	22.27
June	3,979	23.34	4,067	23.60	4,260	23.28	4,445	23.94	3,726	23.16
September	4,549	26.68	4,049	23.49	4,287	23.43	4,483	24.13	3,918	24.36
December	4,954	29.05	5,409	31.39	5,567	30.42	5,832	31.39	4,853	30.18
Unknown	5	.03	7	.04	3	.02	2	.01	5	.03
Average a	4,263	25.00	4,308	25.00	4,575	25.00	4,644	25.00	4,021	25.00

a The number in unknown quarter of year included.

As noticed before, the last quarter of the year seems to be the favorite time for weddings. Table 32, which gives the marriages by months, with the months arranged according to the number of marriages, the highest number first, will amply show this to be true. In the ten years' average November shows the most marriages and February the least.

TABLE 32.—*Marriages by months, greatest first, for the years 1888-1890, and the average for ten years, 1880-1889, corrected for additional returns up to April 9, 1891.*

Order.	1888.			1889.			1890.			Average for 10 years, 1880-1889.		
	Months.	Number.	Per cent of total.	Months.	Number.	Per cent of total.	Months.	Number.	Per cent of total.	Months.	Number.	Per cent of total.
	Total	17,297	100.00	Total	18,316	100.00	Total	18,577	100.00	Total	16,408	100.00
1	Nov.	1,836	10.61	Oct.	1,908	10.42	Nov.	2,041	10.99	Nov.	1,716	10.46
2	Oct.	1,824	10.55	Nov.	1,892	10.33	Dec.	1,945	10.47	Oct.	1,680	10.24
3	Dec.	1,804	10.43	Dec.	1,778	9.67	Oct.	1,846	9.94	Dec.	1,650	10.05
4	Sept.	1,582	9.15	Sept.	1,652	9.01	Sept.	1,733	9.32	Sept.	1,506	9.18
5	Apr.	1,511	8.73	May	1,459	7.97	Apr.	1,609	8.67	Apr.	1,306	7.96
6	May	1,315	7.60	Jan.	1,439	7.86	June	1,482	7.98	July	1,294	7.89
7	Jan.	1,280	7.40	Mar.	1,414	7.73	July	1,436	7.73	May	1,256	7.65
8	July	1,254	7.25	June	1,404	7.67	May	1,354	7.29	Jan.	1,252	7.63
9	June	1,244	7 20	Apr.	1,398	7.63	Aug.	1,314	7.07	Mar.	1,237	7.54
10	Mar.	1,218	7.04	July	1,382	6.56	Jan.	1,314	7.07	June	1,204	7.34
11	Aug.	1,218	7.04	Feb.	1,331	7.27	Feb.	1,252	6.74	Aug.	1,178	7.18
12	Feb.	1,204	6.96	Aug.	1,256	6.86	Mar.	1,249	6.72	Feb.	1,124	6.85
	Unk.	7	.04	Unk.	3	.02	Unk.	2	.01	Unk.	5	.03
	Av. a.	1,436	8.33	Av. a.	1,525	8.33	Av. a.	1,548	8.33	Av. a.	1,367	8.33

a Includes those for unknown months.

TABLE 33.—*Distinguishing by counties and by months, the number of marriages returned for the year 1890.*

State and counties.	Year, 1890.	Months, 1890.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
State	18,577	1,314	1,252	1,249	1,609	1,354	1,482	1,436	1,314	1,733	1,846	2,041	1,945	2
Alcona	25	.....	2	4	3	2	1	2	3	4	.....	3	1	....
Alger	6	.....	.....	.....	1	.....	.....	.....	.....	2	.....	2	1	....
Allegan	346	25	30	34	29	21	21	21	22	32	30	34	47	....
Alpena	125	1	5	5	14	13	13	13	13	13	11	10	14	....
Antrim	69	3	4	7	10	6	2	4	6	4	8	7	8	....
Arenac	41	1	1	3	3	4	2	3	4	4	4	5	7	....
Baraga	34	6	2	1	2	2	5	1	5	2	5	1	2	....
Barry	256	13	14	28	19	12	20	16	21	26	14	29	44	....
Bay	507	53	35	13	33	44	39	42	47	51	47	49	54	....
Benzie	42	1	2	4	6	5	5	1	2	5	3	2	6	....
Berrien	432	31	30	24	27	33	43	34	39	51	46	34	40	....
Branch	273	23	19	32	19	9	30	15	22	29	27	26	22	....
Calhoun	393	26	25	38	37	22	31	27	26	33	43	47	38	....
Cass	184	15	17	12	17	10	16	14	16	11	22	23	11	....
Charlevoix	66	6	2	4	4	5	4	8	7	4	.....	17	5	....
Cheboygan	100	5	4	2	18	6	10	11	6	14	5	9	10	....
Chippewa	108	7	7	8	14	9	7	6	15	6	9	11	9	....
Clare	64	....	3	10	6	5	8	4	8	3	5	3	9	....
Clinton	208	15	16	11	12	11	8	18	15	12	26	25	39	....
Crawford	27	3	2	5	3	2	.....	.....	2	.....	1	4	5	....
Delta	167	8	9	5	19	12	12	16	17	19	13	27	10	....
Eaton	274	21	18	26	18	14	22	14	14	22	32	36	37	....
Emmet	83	3	6	4	8	6	3	6	9	7	12	9	10	....
Genesee	368	21	17	36	31	30	29	30	22	36	31	50	35	....
Gladwin	30	2	1	.....	4	6	4	3	2	1	.....	3	4	....
Gogebic	159	5	15	11	12	8	11	11	15	11	18	23	19	....
Grand Traverse	124	4	5	7	16	12	6	15	9	17	7	4	22	....
Gratiot	243	20	11	16	27	18	17	17	15	22	26	23	31	....
Hillsdale	260	23	15	32	22	10	18	14	14	23	26	25	38	....
Houghton	404	18	26	12	28	39	41	31	32	46	48	50	33	....

TABLE 33.—CONTINUED.—*Marriages by counties, by months.*

Counties.	Year, 1890.	Months, 1890.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Huron	186	16	17	13	15	9	20	15	7	10	22	21	21	----
Ingham	328	28	22	18	31	14	18	29	27	33	40	36	32	----
Ionia	299	27	16	22	24	21	18	19	25	26	26	34	41	----
Iosco	141	1	4	6	9	20	15	6	7	18	18	19	18	----
Iron	54	6	2	2	5	2	3	5	5	4	10	5	5	----
Isabella	154	11	10	8	13	17	13	13	10	11	7	20	21	----
Jackson	367	25	32	36	32	23	23	30	22	30	33	53	28	----
Kalamazoo	389	28	30	42	31	22	23	19	21	35	37	47	54	----
Kalkaska	55	----	3	5	7	2	1	9	3	7	4	3	11	----
Kent	1,096	69	73	70	90	93	91	98	72	107	119	109	105	----
Keweenaw	25	2	2	----	3	----	2	4	2	1	4	3	2	----
Lake	68	2	3	3	7	4	4	8	5	4	9	5	14	----
Lapeer	248	17	16	21	26	12	21	18	14	27	25	21	30	----
Leelanaw	68	6	2	3	6	11	4	4	9	9	4	8	2	----
Lenawee	435	41	37	25	28	39	33	26	27	36	39	45	59	----
Livingston	180	17	17	11	10	7	10	11	10	12	22	23	30	----
Luce	25	2	2	1	1	2	4	3	3	2	----	2	3	----
Mackinac	84	4	5	3	9	6	4	11	10	13	7	6	6	----
Macomb	255	21	24	16	30	24	17	10	21	17	29	22	24	----
Manistee	200	20	15	16	19	4	12	19	13	24	15	22	21	----
Manitou	7	2	1	----	----	----	----	1	1	----	----	2	----	----
Marquette	441	20	25	19	34	31	45	32	39	52	53	52	39	----
Mason	158	10	12	11	13	7	10	21	10	17	14	18	15	----
Mecosta	192	12	8	11	14	20	13	22	17	20	14	21	20	----
Menominee	269	10	13	7	32	19	34	25	27	21	27	42	12	----
Midland	102	6	4	6	7	10	10	13	10	5	9	11	11	----
Missaukee	35	----	1	3	5	4	1	1	3	4	3	5	5	----
Monroe	297	24	18	34	31	22	23	11	16	23	33	37	25	----
Montcalm	270	25	19	20	20	15	18	21	18	25	26	28	34	1
Montmorency	6	1	----	----	1	1	----	1	----	1	----	----	1	----
Muskegon	342	21	13	25	34	23	26	36	28	29	34	35	38	----
Newaygo	187	6	9	22	15	12	22	24	11	17	17	12	20	----
Oakland	303	23	28	28	30	14	16	20	14	22	37	35	36	----
Oceana	131	7	11	9	13	18	10	10	7	11	8	12	15	----
Ogemaw	40	7	2	4	9	1	1	4	1	1	2	4	4	----
Ontonagon	26	1	1	1	----	1	1	2	2	4	3	9	1	----

TABLE 33.—CONTINUED.—*Marriages by counties, by months.*

Counties.	Year, 1890.	Months, 1890.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Osceola	123	5	9	10	8	8	8	12	12	11	12	11	17	----
Oscoda	18	3	------	2	2	3	1	2	2	1	2	------	------	----
Otsego	51	3	4	4	3	4	5	6	2	6	3	5	6	----
Ottawa	273	24	14	25	27	24	21	20	15	16	22	37	28	----
Presque Isle	32	2	4	------	3	7	3	2	3	------	5	2	1	----
Roscommon	14	------	2	------	------	2	2	3	------	1	2	2	------	----
Saginaw	680	36	53	29	61	56	75	67	45	70	80	61	47	----
Sanilac	189	25	10	13	18	11	15	14	11	17	15	21	19	----
Schoolcraft	52	------	2	2	6	3	6	9	8	7	5	2	2	----
Shiawassee	284	26	21	21	24	17	19	19	25	25	21	33	33	----
St. Clair	495	41	30	28	42	27	38	41	31	63	40	37	77	----
St. Joseph	229	19	20	21	24	14	12	16	12	16	39	8	28	----
Tuscola	271	19	17	21	24	16	14	18	18	25	39	23	36	1
Van Buren	260	21	26	26	13	23	18	19	17	15	21	36	25	----
Washtenaw	329	27	28	26	42	22	16	20	15	25	35	43	30	----
Wayne	2,266	178	167	98	187	194	227	155	140	239	227	289	165	----
Wexford	130	8	5	8	9	17	8	15	13	8	9	13	17	----

TABLE 34.—*Exhibiting, by color and sex, the number of marriages and the per cent of persons married in 1890 to population in 1884.*

Color, 1890.	Sex.	Population, June 1, 1884, represented by marriages in 1890.	Number of marriages, 1890.	Persons married, 1890.		Per cent of persons married in 1890 to population of June 1, 1884, by sex and color.	Number of persons who married those of another color.
				Number.	Per cent of totals.		
All colors	Totals	1,853,658	18,577	37,154	100.00	2.00	
	Males	974,424		18,577	50.00	1.90	
	Females	879,028		18,577	50.00	2.11	
	Unknown	206					
White	Totals	1,830,480	22,286	36,952	99.45	2.01	
	Males	962,376		22,286	59.98	2.31	
	Females	868,094		14,666	39.47	1.69	
	Unknown	10					
Black	Totals	6,856	54	96	.25	1.40	
	Males	3,692		54	.14	1.46	
	Females	3,164		42	.11	1.33	
Mulatto	Totals	8,267	22	56	.15	.68	
	Males	4,211		22	.06	.52	
	Females	4,056		34	.09	.83	3
Indian	Totals	6,900	10	50	.13	.72	13
	Males	3,574		10	.03	.28	5
	Females	3,326		40	.10	1.20	8
One or both unknown	Totals	1,085					
	Males	501					
	Females	388					
	Unknown	196					
Black and Mulatto	Totals	15,123	76	152	.40	1.00	13
	Males	7,903		76	.20	.96	8
	Females	7,220		76	.20	1.05	5

TABLE 35.—*Exhibiting for the State and counties, the number of marriages returned for the year 1890, and the color of persons married in 1889, stated by couples.*

State and counties.	Marriages, 1890.	Color of persons married, 1890, stated by couples.						
		White.	Black.	Mulatto.	Indian.	Female unknown, male white.	Male unknown, female white.	Both unknown.
State	18,577	18,476	48	28	25			
Alcona	25	25						
Alger	6	a 6						
Allegan	346	345	1					
Alpena	125	125						
Antrim	69	68			1			
Arenac	41	39			2			
Baraga	34	bc 32			2			
Barry	256	256						
Bay	507	506			1			
Benzie	42	42						
Berrien	432	426	6					
Branch	273	273						
Calhoun	393	d 389	3	1				
Cass	184	175	6	3				
Charlevoix	66	65			1			
Cheboygan	100	e 100						
Chippewa	108	106			f 2			
Clare	64	64						
Clinton	208	208						
Crawford	27	27						
Delta	167	165			2			
Eaton	274	274						
Emmet	83	g 79		1	h 3			
Genesee	368	367		1				
Gladwin	30	30						
Gogebic	159	159						
Grand Traverse	124	124						
Gratiot	243	240		i 3				
Hillsdale	260	260						

a One couple, male white, female half breed.
b One couple, male half breed, female white.
c One couple, male white, female half breed.
d One couple, male Mulatto, female black.
e One couple, male white, female Indian.
f Two couples, male half breed, female white.
g One couple, male white, female Indian.
h One couple, male half breed, female Indian.
i Three couples, male Mulatto, female white.

TABLE 35.—CONTINUED.—*Marriages in 1890, by counties, by color.*

Counties.	Marriages, 1890.	Color of persons married, 1890, stated by couples.						
		White.	Black.	Mulatto.	Indian.	Female unknown, male white.	Male unknown, female white.	Both unknown.
Houghton	404	404						
Huron	186	186						
Ingham	328	327	1					
Ionia	299	298		1				
Iosco	141	139			2			
Iron	54	54						
Isabella	154	a 149		1	4			
Jackson	367	362	b 3	2				
Kalamazoo	389	384	c 1	d 4				
Kalkaska	55	55						
Kent	1,096	1,087	e 4	5				
Keweenaw	25	25						
Lake	68	68						
Lapeer	248	247		1				
Leelanau	68	65			3			
Lenawee	435	434		1				
Livingston	180	180						
Luce	25	25						
Mackinac	84	84						
Macomb	255	254		1				
Manistee	200	200						
Manitou	7	6			f 1			
Marquette	441	440	1					
Mason	158	158						
Mecosta	192	185	5	1	1			
Menominee	269	268		1				
Midland	102	102						
Missaukee	35	35						
Monroe	297	297						
Montcalm	270	270						
Montmorency	6	6						
Muskegon	342	342						
Newaygo	187	g 187						
Oakland	303	302	1					
Oceana	131	131						

a One couple, male white, female Indian.
b One couple, male black, female Mulatto.
c One couple, male black, female Mulatto.
d One couple, male Mulatto, female black.
e One couple, male black, female Mulatto.
f One couple, male Indian, female half breed.
g One couple, male white, female Indian.

TABLE 35.—CONCLUDED.—*Marriages in 1890, by counties, by color.*

Counties.	Marriages, 1890.	Color of persons married, 1890, stated by couples.						
		White.	Black.	Mulatto.	Indian.	Female unknown, male white.	Male unknown, female white.	Both unknown.
Ogemaw	40	40						
Ontonagon	26	26						
Osceola	123	123						
Oscoda	18	18						
Otsego	51	51						
Ottawa	278	278						
Presque Isle	32	32						
Roscommon	14	14						
Saginaw	680	679		1				
Sanilac	189	189						
Schoolcraft	52	52						
Shiawassee	284	284						
St. Clair	495	495						
St. Joseph	229	229						
Tuscola	271	271						
Van Buren	260	260						
Washtenaw	329	320	9					
Wayne	2,266	2,259	7					
Wexford	130	130						

The marriages for 1890 arranged according to nativity are given in Table 36. Certain interesting percentages of nativities may be learned from this table. The total number of native bridegrooms was 12,185; of native brides 14,266. Marriages where both were native, 10,438; where both were foreign, 2,482.

TABLE 36.—*By nativity, the number and per cent of brides and bridegrooms returned for the year 1890.*

Bridegrooms and brides—nativity specified.		Brides, 1890.			Bridegrooms, 1890.	
		Native-born.	Foreign-born.	Unknown.	Total of each nativity and of all nativities.	Per cent of each nativity.
Bridegrooms	Native born	10,438	1,409	338	12,185	65.60
	Foreign born	3,819	2,482	75	6,376	34.32
	Unknown	9	3	4	16	.08
Brides	Whole No. of each nativity and total	14,266	3,894	417	18,577	
	Per cent of each nativity and total	76.80	20.96	2.24		

Table 37 gives the marriage rates for the native and foreign born inhabitants to the whole population. The increase in the number of marriages over those of last year is quite evenly divided between the native and foreign born inhabitants. The exhibit following this table shows the per cent of marriages of native and foreign born persons married to the whole population of the same.

TABLE 37.—*Exhibiting by sex, the nativity of persons married in Michigan in 1890, and the population in 1884.*

Nativity of persons married, 1890.	Marrriages, 1890.		Population June 1, 1884, represented by marriages, 1890.			Persons married, 1890.					
						Number.			Per cent of persons married in 1890 to population of same nativity June 1, 1884.		
	Number.	Per cent of total.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.
Totals	18,577	100.00	1,853,658	974,424	879,028	37,154	18,577	18,577	2.00	1.90	2.11
Native born	10,438	56.19	1,357,639	695,490	662,145	25,114	12,185	12,929	1.84	1.75	1.95
Foreign born	3,819	20.55	486,968	272,298	214,662	11,607	6,376	5,231	2.38	2.34	2.43
Foreign male and native female	2,482	13.36									
Foreign female and native male	1,409	7.59									
Nativity unknown	429	2.31	9,051	6,636	2,214	433	16	417	4.78	.24	1.88
One or both native	14,329	77.13									
One or both foreign	7,710	41.50									

Nativity.	Inhabitants June 1, 1884, aged 15 years and over.			Persons married, 1890.			Per cent of persons married in 1890 to inhabitants June 1, 1884, aged 15 years and over.		
	Both sexes.	Males.	Females.	Both sexes.	Males.	Females.	Both sexes.	Males.	Females.
All nativities	1,213,634	649,588	564,046	37,154	18,577	18,577	3.06	2.85	3.30
Native	782,620	403,790	378,830	25,114	12,185	12,929	3.20	3.01	3.41
Foreign	428,384	239,827	188,557	11,607	6,376	5,231	2.74	2.65	2.85

A period of fourteen years is covered in Table 38, where the percentages with relation to nativity of persons married are given. The per cent of both native born will be found somewhat below the average; the foreign born above; native groom and foreign bride below; foreign groom and native bride above.

TABLE 38.—*Per cent of marriages, by nativity, in Michigan for fourteen years, 1877–1890, and the average for these years.*

Years.	Both native born.	Both foreign born.	Native born groom and foreign born bride.	Foreign born groom and native born bride	Unknown.
1877	63.33	14.31	7.18	13.05	2.13
1878	63.83	12.68	7.72	13.48	2.29
1879	64.15	12.78	7.40	13.56	2.11
1880	62.17	15.20	7.48	13.02	2.13
1881	59.30	18.00	8.18	12.75	1.77
1882	58.15	16.91	8.72	12.47	1.05
1883	57.19	20.60	8.65	12.27	1.29
1884	57.28	20.32	9.00	12.11	1.29
1885	59.14	18.65	8.90	12.13	1.18
1886	58.50	18.71	8.76	12.79	1.24
1887	56.65	20.22	8.47	13.10	1.56
1888	54.97	21.46	7.83	13.49	2.25
1889	55.78	20.41	13.31	7.82	2.48
1890	56.13	20.55	7.04	13.30	2.31
Average	59.04	17.91	8.42	12.52	1.79

AGES OF PERSONS MARRIED.

Table 39 gives the average age, at time of marriage, of both males and females for all nativities, for the native and foreign born, and also for those of unknown nativities.

TABLE 39.—*By nativity, the average age of persons married in Michigan in 1887, 1890, and the average for the ten years 1880-1889.*

Nativity of persons married.	1887.		1888.		1889.		1890.		Average age for 10 years, 1880-1889.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
All nativities	28.60	23.57	29.20	24.43	28.24	23.45	28.85	24.30	28.37	23.47
Native	28.17	23.17	28.07	23.00	27.86	22.89	28.14	22.80	27.83	22.98
Foreign	29.40	24.54	29.29	24.81	29.00	24.52	29.28	24.60	29.26	24.50
Unknown	29.85	23.69	30.25	25.49	26.29	25.75	27.00	25.55	29.42	24.26

The marriages for 1890, the number of each sex, at different ages, and several interesting comparisons, are given in Table 40. The proportion of males married under 20 years is 1.60, while for 1889 it was 1.87. The per cent of females for the same age is 31.24, and for 1889 it was 32.79. In 1889 there was one female aged 12 married; the youngest for 1890 was 14. No males under 18, the legal age, were married, and only 79 were married aged 18. Twelve females, two aged 14 and 10 aged 15, were married, and 738 were married aged 16, which is the legal age. For 1889 there were 19 females married under 16.

The penalty for solemnizing an illegal marriage is a fine not exceeding five hundred dollars. Convictions under this law are seldom, if ever, heard of, though every year there are several marriages returned where one or both of the parties were not of legal age, perhaps it is because no one interested in the persons contracting the marriage cared to interfere.

TABLE 40.—*Exhibiting, by sex, and by periods of age, the number and per cent of persons married during the year 1890.*

Ages in years and periods.	Marriages, 1890.						
	Total number of persons married, 1890.	Males.			Females.		
		Number married.	Per cent of total married.	Per cent of persons married at corresponding ages.	Number married.	Per cent of total married.	Per cent of persons married at corresponding ages.
All ages	37,154	18,577	100.00	[illegible]0.00	18,577	100.00	50.00
12							
13							
14	2				2	.10	100.00
15	10				10	.05	100.00
16	738				738	3.97	100.00
17	1,135				1,135	6.10	100.00
18	2,118	79	.43	3.72	2,039	10.97	96.27
19	2,099	219	1.18	10.43	1,880	10.12	89.56
20	2,569	577	3.10	22.46	1,992	10.72	77.58
21 to 25	12,238	6,585	35.45	53.80	5,653	30.43	46.19
25 to 30	8,491	5,865	31.57	69.07	2,626	14.13	30.92
30 to 35	3,351	2,342	12.61	69.89	1,009	5.42	30.11
35 to 40	1,606	1,092	5.88	67.99	514	2.76	32.00
40 to 45	899	571	3.07	63.51	328	1.76	36.48
45 to 50	655	402	2.16	61.37	253	1.35	38.62
50 to 55	472	285	1.53	60.38	187	1.00	39.61
55 to 60	312	217	1 17	69.54	95	.51	30.44
60 to 65	206	148	.80	71.84	58	.31	28.15
65 to 70	124	94	.51	75.80	30	.16	24.19
70 to 75	70	62	.33	88.57	8	.04	11.42
75 to 80	21	20	.11	95.23	1		4.76
80 and over	5	5	.03	100.00			57.57
Unknown ages	33	14	.07	42.42	19	.10	
Under 15	2				2		
15 to 20	6,100	298	1.60	4.88	5,804	31.24	95.13
20 to 25	14,807	7,162	38.55	49.04	7,645	41.15	51.63

TABLE 41.—*Exhibiting for the State and counties, by sex, the nativity and age in periods of years, of persons married in Michigan during the year 1890.*

State and counties.	Number of couples married, 1890.	Nativity of persons married, 1890, stated by couples.									Sex stated.	Marriages at different ages, stated in periods of years, 1890.														
		Both native born.	Both foreign born.	Foreign males, native females.	Foreign females, native males.	Females unknown. Males. Native.	Females unknown. Males. Foreign.	Males unknown. Females. Native.	Males unknown. Females. Foreign.	Both unknown.		Under 20.	20 to 25.	25 to 30.	20 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Both unknown.
State	18,577	10,438	3,819	2,482	1,409	338	75	9	3	4	Totals	6,102	14,807	8,491	3,351	1,606	899	655	472	312	206	124	70	21	5	33
											Males	298	7,162	5,865	2,342	1,092	571	402	285	217	148	94	62	20	5	14
											Females	5,804	7,645	2,626	1,009	514	328	253	187	95	58	30	8	1	..	19
Alcona	25	5	9	9	2						Males		9	9	5	1	1									
											Females	12	8	2	1	2										
Alger	6	2	3		1						Males		1	1	4											
											Females	4	1	1												
Allegan	346	263	17	43	18	3	2				Males	7	159	89	38	18	11	5	2	4	7	3	3			
											Females	132	122	48	18	9	4	2	5	3	3					
Alpena	125	14	72	25	12		2				Males	2	50	45	13	6	2	3	2	2						
											Females	48	49	15	2	4	4	2			1					
Antrim	69	45	11	10	3		1				Males	30	25	4	6	1	2				1					
											Females	29	26	9	2			1	1	1						
Arenac	41	16	8	12	3		2				Males		16	11	6	3	2	2		1						
											Females	15	16	3	2	4		1								
Baraga	34	14	11	8	1						Males	1	9	12	5	5	1	1								
											Females	6	18	7	1	1	1									

Barry	256	223	3	16	5	7	2				Males	7	111	68	22	16	7	7	5	8	4		1				
											Females	94	102	26	9	11	5	2	2	3	1					1
Bay	507	183	147	117	60						Males	4	181	168	75	26	16	14	11	4	3	3	2			
											Females	155	223	64	31	10	7	6	7	2						2
Benzie	42	28	3	5	6						Males	1	16	11	7	3	1	2		1						
											Females	12	18	4	4	3		1								
Berrien	432	317	45	39	18	7	3	2	1		Males	10	161	130	49	25	13	12	13	5	7	2	4	1		
											Females	116	167	72	29	15	13	11	4	3		1	1			
Branch	273	245	2	12	6	7	1				Males	8	110	61	23	23	11	7	8	9		6	3	2	2	
											Females	80	104	33	13	9	9	6	7	8	3		1			
Calhoun	393	310	22	33	14	11	1	2			Males	4	137	125	46	31	11	12	8	10	5	2	2			
											Females	96	167	58	24	15	11	11	5	2	4					
Cass	184	161	2	11	4	5		1			Males	3	79	60	16	7	5	3	5	2	1	1	2			
											Females	67	74	15	11	3	2	6	3	2			1			
Charlevoix	66	35	6	14	10		1				Males		22	24	11	2	2	2		1	1					1
											Females	27	23	12	1	3										
Cheboygan	100	24	21	26	17	8	4				Males	1	37	37	15	1	4	2		1	1					1
											Females	47	30	10	3	6	1		2							1
Chippewa	108	13	53	17	24		1				Males	1	35	40	16	5	5	2	2	1	1					
											Females	34	46	15	5	3	3	1		1						
Clare	64	33	11	13	5	1	1				Males	2	20	24	9	2	1	1	1		2	2				
											Females	33	13	8	3	1	1	1		1	2	1				
Clinton	208	172	3	12	8	12	1				Males	2	95	56	25	7	7	4	4	3	1	1	2	1		
											Females	70	90	25	6	6	4	3	1	2			1			
Crawford	27	14	7	5	1						Males	1	9	10	4	2		1								
											Females	8	10	6	2	1										
Delta	167	50	81	27	9						Males		60	65	29	9	3	1								
											Females	56	65	30	10	3	1	1		1						

TABLE 41.—CONTINUED.—*Marriages by counties, nativity, and periods of age.*

Counties.	Number of couples married, 1890.	Nativity of persons married, 1890, stated by couples.									Sex stated.	Marriages at different ages, stated in periods of years, 1890.														
		Both native born.	Both foreign born.	Foreign males, native females.	Foreign females, native males.	Females unknown. Males. Native.	Females unknown. Males. Foreign.	Males unknown. Females. Native.	Males unknown. Females. Foreign.	Both unknown.		Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Both unknown.
Eaton	274	246	2	17	9	.....	.....	.....	.....	.....	Males	10	114	76	30	13	5	13	4	2	2	4	1	.....	.....	.....
											Females	100	100	38	7	11	6	7	3	1	1	.....	.....	.....	.....	.....
Emmet	83	55	8	6	11	3	.....	.....	.....	.....	Males	.....	35	26	9	4	4	2	2	1	.....	.....	.....	.....	.....	.....
											Females	31	33	8	5	3	.....	2	.....	.....	.....	.....	.....	.....	.....	1
Genesee	368	274	25	34	34	1	.....	.....	.....	.....	Males	8	172	89	39	20	14	3	8	7	2	4	.....	2	.....	.....
											Females	122	148	48	19	13	5	6	4	1	.....	2	.....	.....	.....	.....
Gladwin	30	13	3	8	3	2	1	.....	.....	.....	Males	2	10	12	5	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
											Females	16	8	5	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gogebic	159	15	119	15	9	1	.....	.....	.....	.....	Males	.....	52	67	31	7	1	1	.....	.....	.....	.....	.....	.....	.....	.....
											Females	42	76	25	14	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
G'd Traverse	124	74	12	20	14	4	.....	.....	.....	.....	Males	.....	59	31	13	14	1	1	2	.....	1	1	1	.....	.....	.....
											Females	44	53	13	8	4	.....	.....	2	.....	.....	.....	.....	.....	.....	.....
Gratiot	243	197	8	23	13	2	.....	.....	.....	.....	Males	5	102	74	22	14	10	2	5	4	5	.....	.....	.....	.....	.....
											Females	118	82	21	6	3	4	2	5	2	.....	.....	.....	.....	.....	.....
Hillsdale	260	210	.....	7	4	36	2	.....	.....	1	Males	12	102	73	30	10	7	6	3	2	8	1	2	.....	.....	4
											Females	75	105	40	12	4	7	4	4	1	2	2	.....	.....	.....	4
Houghton	404	66	269	59	10	.....	.....	.....	.....	.....	Males	2	147	158	55	18	13	6	4	1	.....	.....	.....	.....	.....	.....
											Females	104	186	69	10	7	3	2	3	.....	.....	.....	.....	.....	.....	.....

Huron	186	41	66	48	30		1			Males	2	71	59	29	11	3	4		4	1	1	1			
										Females	79	62	26	8	3	2		4	1	1					
Ingham	328	247	26	25	25	5				Males	6	134	94	31	21	9	11	7	2	3	5	4			1
										Females	101	126	49	13	15	7	7	6	3						1
Ionia	299	252	9	28	10					Males	6	123	74	52	17	5	5	4	5	4	2	1	1		
										Females	97	114	38	20	10	6	4	6	1	1		1			1
Iosco	141	36	58	31	16					Males	3	54	47	14	12	3	1	3	3	1					
										Females	57	46	17	9	3	3	2	4							
Iron	54	15	28	4	6		1			Males	1	23	16	9	5										
										Females	24	19	6	5											
Isabella	154	108	13	23	10					Males	3	64	42	21	8	5	4	3	1		3				
										Females	66	64	8	4	1	2	2	3	4						
Jackson	367	294	16	34	13	6	3	1		Males	4	149	95	42	23	16	14	7	5	7	3	1			1
										Females	95	151	54	25	13	10	7	5	4	1	1				
Kalamazoo	389	299	24	38	21	7				Males	8	151	106	53	27	17	8	6	3	5	3				2
										Females	78	185	59	35	10	11	2	4		1	2				2
Kalkaska	55	32	1	12	6	3	1			Males	1	23	18	8	3	1		1							
										Females	31	17	2	3	1		1								
Kent	1,096	625	243	135	89	4				Males	28	430	312	114	92	29	31	19	20	8	7	3	2		
										Females	296	452	178	63	39	22	23	12	4	5	2				
Keweenaw	25	7	7	9	2					Males	1	11	8	2	1	2									
										Females	6	10	5	3	1										
Lake	68	39	9	10	7	3				Males	2	29	22	6	3	1	3	2							
										Females	39	16	9		2	2									
Lapeer	248	149	22	43	34					Males	4	119	63	24	10	8	6	7	4	1			2		
										Females	90	100	25	12	6	7	2	3	2		1				
Leelanau	68	40	9	9	10					Males	1	23	23	12	4	2			3						
										Females	33	25	4	3		1	1			1					

TABLE 41.—CONCLUDED.—*Marriages in counties, nativity, and periods of age.*

Counties.	Number of couples married, 1890.	Nativity of persons married, 1890, stated by couples.									Sex stated.	Marriages at different ages, stated in periods of years, 1890.															
		Both native born.	Both foreign born.	Foreign males, native females.	Foreign females, native males.	Females unknown. Males. Native.	Females unknown. Males. Foreign.	Males unknown. Females. Native.	Males unknown. Females. Foreign.	Both unknown.		Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Both unknown.
Lenawee	435	326	22	27	15	44		1			Males	9	176	128	55	21	15	8	8	4	5	4	2			
											Females	141	168	68	19	15	9	5	5	2	2			1		
Livingston	180	145	6	20	7	1	1				Males	1	64	52	34	12	3	4	3	1	4			2		
											Females	49	81	22	12	4	3	4	3		1	1				
Luce	25	2	17	2	3	1					Males		6	9	6	1	2	1								
											Females	7	10	5		2	1									
Mackinac	84	37	23	15	9						Males	2	31	30	13	3	4			1						
											Females	36	29	14	3	1			1							
Macomb	255	168	27	40	20						Males	7	100	77	29	16	6	2	4	7	4	1	1		1	
											Females	75	110	39	10	5	7	2	2	3	2					
Manistee	200	56	89	40	12	3					Males		71	66	33	14	8	4	1	3						
											Females	60	99	20	7	8		3	1	1	1					
Manitou	7	4	2		1						Males		2	2	3											
											Females	1	4	1	1											
Marquette	441	70	303	55	13						Males	3	178	159	63	22	9	2	3		2					
											Females	106	209	84	24	9	2	4	1		1	1				
Mason	158	73	46	31	8						Males	2	63	51	18	8	5	4	2	3	1		1			
											Females	66	55	18	4	2	7	3	1			1	1			
Mecosta	192	125	16	27	17	6	1				Males	1	83	59	22	8	8	2	3	4		1	1			
											Females	94	59	18	9	2	4	3	1	3	1	1				

Menominee	266	42	167	44	14	1	1				Males	1	84	169	46	14	10	2	1		1					1
											Females	84	112	45	16	4	4		2							2
Midland	102	45	13	14	15	12	3				Males		42	32	14	4	4	1	2	1	1			1		
											Females	46	32	9	7	2	2	3		1						
Missaukee	35	20	8	6	1						Males	1	11	10	7	3	2	1								
											Females	16	14	3	1		1									
Monroe	297	245	10	21	10	9	1			1	Males	9	117	92	35	13	7	10	5	3	4	2				
											Females	87	129	38	16	10	5	3	5	2	1	1				
Montcalm	270	186	27	28	15	11	1	1		1	Males	11	107	77	21	19	13	6	9		2	4	1			
											Females	130	81	24	10	11	5	3	2		2	2				
Montmorency	6	1	2	2	1						Males		1	3		1		1								
											Females	2	2	2												
Muskegon	342	141	114	51	28	5	3				Males		5	105	118	52	31	11	7	6	5		1	1		
											Females	98	143	50	22	15	3	4	4	1	2					
Newaygo	187	129	20	23	7	7	2				Males	4	65	58	24	15	6	4	3	2	3		2	1		
											Females	70	71	16	13	3	4	4	3	1	1	1				
Oakland	303	229	12	38	20	4					Males	5	119	89	42	13	7	7	6	4	4	3	4			
											Females	80	133	46	12	11	4	5	2	8	2					
Oceana	131	95	11	8	13	4					Males	4	53	39	11	11	3	6		1		3				
											Females	58	44	13	6	4	1	3	1	1						
Ogemaw	40	11	16	13	1	3	2				Males		13	15	5	3	4									
											Females	16	17	4	1			1	1							
Ontonagon	26	10	6	6	3	1					Males	2	4	10	9	1										
											Females	7	13	3	2	1										
Osceola	123	55	22	22	18	5	1				Males	1	57	34	16	6	5	2	1		1					
											Females	56	35	12	10	4	2	2	2							
Oscoda	18	8	4	4		2					Males		1	11	1		5									
											Females	4	7	2	2	3										

TABLE 41.—CONTINUED.—*Marriages by counties, nativity, and periods of age.*

Counties.	Number of couples married, 1890.	Nativity of persons married 1890, stated by couples.									Sex stated.	Marriages at different ages, stated in periods of years, 1890.														
		Both native born.	Both foreign born.	Foreign males, native females.	Foreign females, native males.	Females unknown. Males. Native.	Females unknown. Males. Foreign.	Males unknown. Females. Native.	Males unknown. Females. Foreign.	Both unknown.		Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Both unknown.
Otsego	51	20	9	10	9	2	1				Males	5	16	17	7	6										
											Females	27	19	2	3											
Ottawa	273	155	50	36	30	2					Males	8	112	74	36	14	12	2	7	2	5				1	
											Females	87	110	37	16	4	7	6	2	1	1	2				
Presque Isle	32	5	11	14	2						Males		15	13		1	1		2							
											Females	20	8			1	1		2							
Roscommon	14	4	2	7	1						Males		7	3	2		1			1						
											Females	4	6	2			1	1								
Saginaw	680	335	140	136	66	2	1				Males	10	244	233	94	38	22	17	8	8	5	1				
											Females	222	293	86	26	23	13	7	7	2	2					
Sanilac	189	73	48	38	28	1	1				Males	2	78	63	24	9	5	3	1	2			2			
											Females	60	80	34	4	6	2	1			1		1			
Schoolcraft	52	15	27	4	5		1				Males		16	20	12	3	1									
											Females	16	24	7	3	2										
Shiawassee	284	205	12	34	17	14	2				Males	3	132	74	28	15	10	8	4	4	1	3	2			
											Females	100	119	32	10	6	4	5	4	1	3					
St. Clair	495	238	97	82	62	7	8		1		Males	3	184	166	69	32	13	13	2	6	5		1	1		
											Females	140	207	80	34	12	7	8	3	3		1				

St. Joseph	229	204	4	14	6	1	.....	.....	.....	....	Males	1	83	74	23	13	8	8	3	3	4	2	2	....	..	..
											Females	69	81	38	20	5	4	6	2	2	1	1	....	....	..	..
Tuscola	271	153	33	40	30	8	6	.....	1	....	Males	9	98	92	34	12	6	5	2	5	4	3	....	1	..	..
											Females	112	96	20	18	5	9	5	2	3	....	....	1	....	..	..
Van Buren	260	225	6	12	5	11	.....	.....	.....	1	Males	6	116	59	21	21	6	10	4	7	....	4	5	1	..	..
											Females	91	95	24	20	9	7	7	3	....	2	2	....	....	..	..
Washtenaw	329	209	25	41	19	26	8	1	.....	....	Males	3	105	124	45	15	12	8	9	3	3	1	1	....	..	..
											Females	60	156	67	24	6	3	6	4	2	1	....	....	....	..	..
Wayne	2,266	801	839	375	248	3	.....	.....	.....	....	Males	15	813	826	300	127	68	48	34	15	7	4	3	2	1	3
											Females	481	1095	414	131	59	40	18	12	6	4	3	....	....	..	3
Wexford	130	72	25	17	11	4	1	.....	.....	....	Males	2	46	40	15	7	9	2	3	3	....	3	....	....	..	..
											Females	41	49	17	11	1	3	2	4	1	....	1	....	....	..	..

The number of marriages at corresponding ages may be learned from Table 42. The total number of males married under 20 was 298, while the females for the same age numbered 5,804. Females under 20 to the number of 3,428 married men aged 20 to 25, and one under 20 married a man aged 55 to 60. One male under 20 married a woman aged 35 to 40.

TABLE 42.—*Exhibiting the number of each sex, at each period of age, married during the year 1890, and the per cent of brides and of bridegrooms at each period of age to total at all ages.*

Ages of males, 1890.	Ages of females, 1890.															Total males.	Per cent of grooms at each age.
	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.		
Under 20	238	55	3	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	298	1.60
20 to 25	3,428	3,364	304	46	11	2	2	.....	.....	.....	.....	.....	.....	.....	5	7,162	38.56
25 to 30	1,634	2,775	1,211	199	37	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	5,865	31.57
30 to 35	373	943	626	331	53	11	5	.....	.....	.....	.....	.....	.....	.....	.....	2,342	12.67
35 to 40	92	323	296	180	144	37	18	1	1	.....	.....	.....	.....	.....	.....	1,092	5.87
40 to 45	20	123	97	115	102	75	24	10	5	.....	.....	.....	.....	.....	.....	571	3.07
45 to 50	12	42	63	73	75	60	54	19	3	.....	.....	.....	.....	.....	1	402	2.16
50 to 55	5	16	19	27	44	60	56	48	9	1	.....	.....	.....	.....	.....	285	1.53
55 to 60	1	1	6	19	27	38	40	46	27	9	2	1	.....	.....	.....	217	1.16
60 to 65	.....	2	.....	9	10	20	31	34	23	17	2	.....	.....	.....	.....	148	.79
65 to 70	.....	1	.....	4	4	11	12	20	16	16	10	.....	.....	.....	.....	94	.50
70 to 75	.....	.....	1	4	4	3	9	8	8	11	9	5	.....	.....	.....	62	.33
75 to 80	.....	.....	.....	1	2	2	1	.....	3	2	6	2	1	.....	.....	20	.10
80 and over	.....	.....	.....	.....	.....	.....	1	1	.....	2	1	.....	.....	.....	.....	5	.02
Unknown	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	14	.07
Total females	5,804	7,645	2,626	1,009	514	328	253	187	95	58	30	8	1	.....	19	18,577	.....
Per cent of brides at each age	31.24	41.15	14.14	5.43	2.77	1.77	1.36	1.01	.51	.31	.16	.04	.01	.....	.10	.....	100.00

TABLE 43.—*Exhibiting, by counties, the number of marriages in Michigan, for the years 1888–1889, and 1890; the number as first returned, and the number returned since first compilation for the years 1888 and 1889; the number of inhabitants in 1884, and the per cent of marriages in 1890 to population in 1884.*

State and counties.	Marriages.							Population 1884, represented by marriages in 1890.	Number of inhabitants in 1884 to one marriage in 1890.	Per cent of marriages in 1890 to population in 1884.
	1888.			1889.			1890.			
	Number as first returned and compiled.	Number returned since first compilation.	Number returned previous to June, 1890.	Number as first returned and compiled.	Number returned since first compilation.	Number returned previous to June, 1890.	Number returned.			
State	17,233	64	17,297	18,300	16	18,316	18,577	1,853,658	399	.....
Alcona	25	.....	25	27	.....	27	25	4,028	161	.62
Alger	9	.....	9	6	.....	6	6	a	.....	.....
Allegan	319	.....	319	318	1	319	346	38,666	111	.89
Alpena	137	.....	137	149	.....	150	125	12,683	101	.98
Antrim	78	.....	78	75	.....	75	69	8,761	126	.78
Aranac	32	.....	32	40	.....	40	41	4,027	98	1.01
Baraga	28	.....	28	27	.....	27	34	3,039	89	1.11
Barry	206	.....	206	225	.....	227	256	24,102	94	1.06
Bay	447	.....	447	493	.....	493	507	51,221	101	.99
Benzie	25	.....	25	44	.....	44	42	4,389	104	.95
Berrien	376	.....	376	387	4	391	432	37,776	87	1.14
Branch	242	.....	242	269	.....	269	273	27,661	101	.98
Calhoun	323	.....	323	392	.....	392	393	41,585	105	.94
Cass	172	1	173	201	.....	201	184	21,202	115	.86
Charlevoix	88	.....	88	79	.....	79	66	9,275	140	.71
Cheboygan	93	2	95	95	1	96	100	9,946	99	1.00
Chippewa	106	.....	106	106	.....	106	108	8,422	77	1.28
Clare	68	.....	68	85	.....	85	64	5,549	86	1.15
Clinton	229	.....	229	215	.....	215	208	27,135	130	.76
Crawford	30	.....	30	28	.....	28	27	2,389	88	1.13
Delta	149	.....	149	163	.....	163	167	9,992	59	1.67
Eaton	266	.....	266	293	.....	293	274	31,802	116	.86
Emmet	72	.....	72	88	.....	88	83	7,944	95	1.04
Genesee	326	.....	326	389	.....	389	368	38,776	105	.94
Gladwin	18	.....	18	39	.....	39	30	1,539	51	1.94

a Organized since census was taken.

TABLE 43.—CONTINUED.—*Marriages, corrected by counties.*

Counties.	Marriages.							Population 1884, represented by marriages in 1890.	Number of inhabitants in 1884 to one marriage in 1890.	Per cent of marriages in 1890 to population in 1884.
	1888.			1889.			1890.			
	Number as first returned and compiled.	Number returned since first compilation.	Number returned previous to June, 1890.	Number as first returned and compiled.	Number returned since first compilation.	Number returned previous to June, 1890.	Number returned.			
Gogebic	121	.....	121	107	.....	107	159	a	.....	.....
Grand Traverse	120	.....	120	140	4	144	124	12,092	97	1.02
Gratiot	238	.....	238	241	.....	241	243	25,049	103	.97
Hillsdale	283	.....	283	286	.....	286	260	31,686	121	.82
Houghton	331	.....	331	357	.....	357	404	26,146	64	1.54
Huron	169	.....	169	237	.....	237	186	24,521	131	.75
Ingham	334	.....	334	347	1	348	328	34,939	106	.93
Ionia	272	3	275	294	.....	294	299	32,559	108	.91
Iosco	123	4	127	135	3	138	141	10,602	75	1.33
Iron	36	.....	36	40	.....	40	54	a	.....	.....
Isabella	146	.....	146	158	.....	158	154	16,011	103	.96
Jackson	337	.....	337	380	.....	380	367	45,232	123	.81
Kalamazoo	374	2	376	402	.....	402	389	35,281	90	1.10
Kalkaska	52	.....	52	53	.....	53	55	4,493	81	1.22
Kent	1,048	.....	1,048	1,141	.....	1,141	1,096	84,600	77	1.29
Keweenaw	14	.....	14	15	.....	15	25	4,667	186	.53
Lake	69	1	70	55	.....	55	68	7,539	110	.90
Lapeer	247	.....	247	270	.....	270	248	30,057	121	.82
Leelanau	58	.....	58	64	.....	64	68	7,128	104	.95
Lenawee	349	.....	349	400	.....	400	435	49,584	113	.87
Livingston	167	.....	167	182	.....	182	180	21,568	119	.83
Luce	26	.....	26	42	.....	42	25	a	.....	.....
Mackinac	64	.....	64	56	.....	56	84	5,171	61	1.62
Macomb	251	1	252	242	.....	242	255	31,293	122	.81
Manistee	222	5	227	212	.....	212	200	19,875	99	1.00
Manitou	.....	.....	.....	1	.....	1	7	1,198	171	.58
Marquette	345	3	348	375	.....	375	441	31,397	71	1.44
Mason	127	.....	127	163	.....	163	158	13,221	83	1.19
Mecosta	190	.....	190	223	.....	223	192	20,597	107	.93
Menominee	243	.....	243	252	.....	252	269	19,120	71	1.40
Midland	76	.....	76	99	.....	99	102	8,776	184	1.16
Miasaukee	38	.....	38	47	.....	47	35	3,386	96	1.03

a Organized since census was taken.

TABLE 43.—CONCLUDED.—*Marriages, corrected by counties.*

Counties.	Marriages.							Population 1884, represented by marriages in 1890.	Number of inhabitants in 1884 to one marriage in 1890.	Per cent of marriages in 1890 to population in 1884.
	1888.			1889.			1890.			
	Number as first returned and compiled.	Number returned since first compilation.	Number returned previous to June, 1890.	Number as first returned and compiled.	Number returned since first compilation.	Number returned previous to June, 1890.	Number returned.			
Monroe	300	9	309	307	.....	307	297	33,353	112	.89
Montcalm	264	.....	264	312	.....	312	270	35,356	130	.76
Montmorency	16	.....	16	14	.....	14	6	845	140	.71
Muskegon	427	.....	427	362	.....	362	342	37,554	109	.91
Newaygo	168	.....	168	162	.....	162	187	18,996	101	.98
Oakland	320	.....	320	319	.....	319	303	41,100	135	.73
Oceana	135	5	140	118	1	119	131	14,519	110	1.90
Ogemaw	52	2	54	49	.....	49	40	3,637	90	1.09
Ontonagon	13	.....	13	17	.....	17	26	4,836	186	.53
Osceola	128	.....	128	141	.....	141	123	14,001	113	.87
Oscoda	18	.....	18	19	.....	19	18	1,374	76	1.31
Otsego	44	.....	44	39	.....	39	51	3,906	76	1.30
Ottawa	229	.....	229	277	.....	277	273	36,225	132	.75
Presque Isle	32	.....	32	26	.....	26	62	4,064	127	.78
Roscommon	17	.....	17	18	.....	18	14	2,588	184	.54
Saginaw	635	.....	635	701	.....	701	680	74,795	109	.90
Sanilac	224	1	225	236	.....	236	189	29,583	156	.63
Schoolcraft	53	.....	53	44	.....	44	52	3,846	73	1.35
Shiawassee	276	3	279	289	.....	289	284	28,078	98	1.01
St. Clair	445	.....	445	465	.....	465	495	46,783	94	1.05
St. Joseph	201	.....	201	236	1	237	229	26,277	114	.87
Tuscola	233	18	251	292	.....	292	271	30,726	113	.88
Van Buren	274	.....	274	284	.....	284	260	30,341	116	.85
Washtenaw	312	.....	312	286	.....	286	329	41,694	126	.78
Wayne	1,967	.....	1,967	1,922	.....	1,922	2,266	188,966	83	1.19
Wexford	116	4	120	116	.....	116	130	10,518	80	1.23

DEATHS, 1890.

For the year 1890 there were returned as having occurred in the State of Michigan 21,144 deaths. For 1889 the number returned was 20,315, while for 1888 there were returned 21,784, the highest ever registered in the history of the State.

The death rate for the year, as corrected by the system used in the United States census reports, shows a per cent of 12.8 for every thousand. This is much lower than the death rate in Massachusetts and other eastern states having a system of registration. In those states the rates run from 16 to 19 for every thousand.

	Inhabitants in 1890, represented by deaths in 1890.	Deaths as returned.	Deaths corrected for omissions in enumerating.	Per cent of deaths to inhabitants.	
				Deaths as returned.	Deaths as corrected for omissions.
Total.	1,651,[illegible]	21,[illegible]	21,[illegible]	1.17	1.28

The statistics concerning the death rates of the following countries were taken from the Massachusetts report of 1890.

England and Wales	21.4	per 1,000.
Scotland	22.1	" "
Ireland	16.8	" "
Sweden	20.0	" "
[illegible]	30.4	" "
[illegible]	30.1	" "

The following number of deaths for certain divisions of the year, as returned and as corrected, may be found in Bulletin IX in Births, Marriages and Deaths, in the first part of the report.

The following is the number of deaths by quarters of the year, thus giving at a glance the seasons when most deaths occur. The third and fourth quarters have the highest death rate, as the same included in the table, and also for the ten years [illegible] the table gives the returns as corrected.

TABLE 44.—*Deaths in Michigan by quarters of the year, exhibiting the number and per cent of totals as returned and corrected for the years 1888–1890, and the average for ten years, 1880–1889.*

Totals and months with which quarters end.	1888.		1889.		1890.		Average for 10 years, 1880–1889.	
	Numb'r	Per cent of total.	Numb'r	Per cent of total.	Numb'r	Per cent of total.	Numb'r	Per cent of total.
Totals	21,764	100.00	20,315	100.00	21,642	100.00	18,312	100.00
As returned. March	4,866	22.36	4,351	21.41	5,119	23.65	3,796	20.73
As returned. June	5,394	24.78	4,428	21.80	5,145	23.77	4,229	23.09
As returned. September	5,936	27.28	5,916	29.13	5,773	26.68	5,292	28.90
As returned. December	5,502	25.28	5,557	27.35	5,574	25.76	4,935	26.95
As returned. Unknown	66	.30	63	.31	31	.14	60	.33
Average a	5,441	25.00	5,079	25.00	5,411	25.00	4,578	25.00
Totals	26,043	100.00	27,461	25.00	23,789	100.00	25,839	100.00
As corrected for omissions. March	6,253	24.01	6,658	24.25	5,796	24.37	6,092	23.58
As corrected for omissions. June	6,637	25.49	6,220	22.65	5,764	24.23	6,297	24.37
As corrected for omissions. September	6,955	26.70	7,793	28.38	6,292	26.45	7,236	28.00
As corrected for omissions. December	6,132	23.55	6,727	24.49	5,906	24.82	6,154	23.82
As corrected for omissions. Unknown	66	.25	63	.23	31	.13	60	.23
Average a	6,313	25.00	6,511	25.00	5,947	25.00	6,459	25.00

a Including deaths in unknown months.

Deaths by months, the highest numbers coming first, are given in Table 45. As will be seen, August stands highest for every year of the table, and for the ten years average.

TABLE 45.—*Exhibiting, by months, the number and per cent of deaths returned for the years 1888–1890, and the average for ten years 1880–1889, the months, in order of greatest first.*

Order.	1888.			1889.			1890.			Average for 10 years, 1880–1889.		
	Year and months.	Number.	Per cent of total.	Year and months.	Number.	Per cent of total.	Year and months.	Number.	Per cent of total.	Year and months.	Number.	Per cent of total.
	Year...	21,764	100.00	Year.....	20,315	100.00	Year.....	21,642	100.00	Year...	18,312	100.00
1	Aug...	2,169	9.97	Aug.....	2,214	10.90	Aug.....	2,032	9.39	Aug...	1,886	10.29
2	Dec...	2,012	9 24	Sept. ...	2,025	9.97	Dec.....	2,027	9.37	Sept. .	1,838	10.04
3	Sept. .	1,978	9.09	Dec.....	1,951	9.60	Sept. ...	1,892	8.74	Dec. ..	1,726	9.43
4	Apr. ..	1,909	8.77	Oct.	1,894	9.32	July	1,849	8.54	Oct. ..	1,676	9.15
5	Mar...	1,865	8.57	Nov.....	1,712	8.42	Oct.	1,808	8.36	July ..	1,568	8.56
6	May ..	1,858	8.54	July	1,677	8.26	Apr.	1,808	8.35	Nov...	1,533	8.37
7	Oct. ..	1,848	8.49	Mar.....	1,676	8.25	Mar.....	1,775	8.20	Apr. ..	1,487	8.12
8	July ..	1,789	8.22	Apr.....	1,585	7.80	Jan.	1,745	8.06	Mar...	1,459	7.97
9	Nov...	1,642	7.54	May	1,454	7.16	Nov.....	1,739	8.04	May ..	1,443	7.88
10	June .	1,627	7.48	Jan.	1,409	6.94	May	1,704	7.87	June .	1,298	7.08
11	Feb. ..	1,585	7.28	June....	1,389	6.84	June....	1,633	7.55	Feb. ..	1,205	6.58
12	Jan. ..	1,416	6.51	Feb.	1,266	6.23	Feb.	1,599	7.39	Jan. ..	1,133	6.19
	Unk. .	66	.30	Unk. ...	63	.31	Unk. ...	31	.14	Unk. .	60	.33
	Av. ...	1,814	8.33	Av.	1,693	8.33	Av.	1,804	8.33	Av. ...	1,526	8.33

SEX OF DECEDENTS.

A period of fourteen years is included in Table 46. It gives the mortality of males and females and certain comparisons between the two. Every year the males exceed the females, the average for fourteen years being 115 males to 100 females. This does not necessarily indicate a greater proportionate mortality among the males, as they are in excess of the females in the total population.

TABLE 46.—*Number and per cent of deaths of males and females returned in Michigan for the years 1877–1890. (Unknown sex excluded.)*

Years.	Deaths of males, as returned.	Deaths of females, as returned.	Deaths of males to 100 deaths of females.	Per cent of each sex to total of both sexes.			
				Males.	Females.	Excess of the sexes.	
						Males.	Females.
1877	6,827	6,040	113.0	53.06	46.94	6.12	.....
1878	6,632	6,082	109.0	52.16	47.84	4.32	.....
1879	7,522	6,848	109.8	52.34	47.66	4.68	.....
1880	8,645	7,410	116.7	53.85	46.15	7.70	.....
1881	10,263	8,910	115.2	53.53	46.47	7.06	.....
1882	8,713	7,664	113.7	53.20	46.80	6.40	.....
1883	9,101	7,748	117.5	54.02	45.98	8.04	.....
1884	9,589	8,385	114.4	53.35	46.65	6.70	.....
1885	9,025	7,569	119.2	54.39	45.61	8.78	.....
1886	9,725	8,402	115.7	53.65	46.35	7.30	.....
1887	10,563	8,877	119.0	54.34	45.66	8.68	.....
1888	11,722	10.024	116.9	53.90	46.10	7.80	.....
1889	10,984	9,297	118.1	54.16	45.84	8.32	.....
1890	11,801	9,771	120.7	54.53	45.61	8.92	.....
Average	9,365	8,073	115.6	53.61	46.40	7.20	.....

OMISSIONS IN THE ENUMERATION OF DEATHS.

In Table 47 the deaths as corrected by the method mentioned are given by months, the highest numbers first. About 12 per cent was added for probable omissions in enumeration. This is a lower per cent than usual, and makes the difference between the deaths as returned and as corrected less than for most years.

The order of the months in Table 47 is changed from that of table 45 because it is thought that the omissions bear a direct relation to the time between the occurrence of the deaths and their enumeration, and that the per cent to be added to each month should be more or less as the time is longer or shorter.

TABLE 47.—*Exhibiting by months the number and per cent of deaths, as corrected for omissions in the enumeration, for the years 1888–1890, and the average for ten years, 1880–1889, months arranged in order by number, greatest first.*

Order.	1888.			1889.			1890.			Average for 10 years, 1880–1889.		
	Months.	Number.	Per cent of total.	Months.	Number.	Per cent of total.	Months.	Number.	Per cent of total.	Months.	Number.	Per cent of total.
	Totals.	26,043	100.00	Totals.	27,461	100.00	Totals.	23,789	100.00	Totals.	25,889	100.00
1	Aug...	2,543	9.77	Aug...	2,921	10.64	Aug...	2,215	9.31	Aug...	2,580	9.99
2	Apr...	2,384	9.15	Sept..	2,600	9.47	Dec...	2,128	8.94	Sept..	2,444	9.44
3	Mar...	2,364	9.08	Mar...	2,509	9.14	Sept..	2,043	5.58	Mar...	2,288	8.84
4	May..	2,284	8.77	Oct...	2,354	8.57	Apr...	2,043	8.58	Apr...	2,263	8.76
5	Sept..	2,281	8.76	Dec...	2,297	8.37	July..	2,034	8.58	July..	2,212	8.54
6	Dec...	2,205	8.47	July..	2,272	8.27	Mar...	2,024	8.51	Oct...	2,158	8.35
7	July..	2,131	8.18	Apr...	2,216	8.07	Oct...	1,935	8.13	May..	2,153	8.33
8	Oct...	2,096	8.05	Jan...	2,209	8.04	Jan...	1,933	8.12	Dec...	2,081	8.05
9	Feb...	2,040	7.83	Nov...	2,076	7.56	May..	1,908	8.02	Feb...	1,940	7.51
10	June..	1,969	7.56	May..	2,073	7.55	Nov...	1,843	7.75	Nov...	1,915	7.41
11	Jan...	1,849	7.10	Feb...	1,940	7.06	Feb...	1,839	7.73	June..	1,881	7.28
12	Nov...	1,831	7.03	June..	1,931	7.03	June..	1,813	7.62	Jan...	1,864	7.22
	Unk..	66	.25	Unk..	63	.23	Unk..	31	.13	Unk..	60	.24
	Av.a..	2,170	8.33	Av.a..	2,288	8.33	Av.a...	1,830	8.33	Av.a..	1,987	8.33

a Including deaths in unknown month.

AGES OF PERSONS WHO DIED IN MICHIGAN 1890.

The number of deaths at different ages is given in Table 48, with several percentages. The large proportion of deaths of children under one year and five years can be seen in this table and compared with the number of deaths at other ages. For under one the per cent will be found to be 25.23, or over one-fourth of the whole number. In Massachusetts the percentage for the same age is about 21.

TABLE 48.—*Exhibiting, by sex and by age, in periods of years, the number and proportion of persons returned as having died in Michigan during the year 1890.*

Ages in years and periods.	Number of deaths, 1890.				Per cent of deaths at each age to total at all ages.			Per cent of each sex to total of both sexes.				Excess of the sexes by numbers.		Males to 100 females.
	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Males.	Females.	Excess. Males.	Excess. Females.	Males.	Female.	
All ages	21,642	11,801	9,771	70	100.00	100.00	100.00	54.70	45.30	9.40	.....	2,030	....	120
Under 1	5,508	3,114	2,329	65	25.23	26.37	23.83	57.21	42.79	14.42	.....	785	....	133
1 to 2	974	456	518	....	4.51	3.86	5.30	46.82	53.18	.....	6.36	.....	62	88
2 to 3	577	300	277	....	2.67	2.54	2.83	52.00	48.00	4.00	.....	23	....	108
3 to 4	445	236	209	....	2.06	2.00	2.14	53.03	46.97	6.06	.....	27	....	112
4 to 5	345	180	165	....	1.60	1.52	1.69	52.17	47.83	4.34	.....	15	....	108
All under 5	7,849	4,286	3,498	65	36.08	36.32	35.80	55.06	44.94	10.12	.....	788	....	122
5 to 10	1,096	575	521	....	5.08	4.87	5.33	52.46	47.54	4.92	.....	54	....	110
10 to 15	621	313	308	....	2.88	2.65	3.15	50.40	49.60	.80	.....	5	....	101
15 to 20	782	388	394	....	3.63	3.29	4.03	49.62	50.38	.....	.76	.....	6	97
20 to 25	907	445	462	...	4.21	3.77	4.73	49.06	50.94	.....	1.88	.....	17	96
25 to 30	918	469	449	....	4.26	3.98	4.59	51.09	48.91	2.18	.....	20	....	104
30 to 35	812	410	402	....	3.76	3.48	4.11	50.49	49.51	.98	.....	8	....	102
35 to 40	813	427	386	....	3.77	3.62	3.95	52.52	47.48	5.04	.....	41	....	110
40 to 45	683	374	309	....	3.17	3.17	3.16	54.76	45.24	9.42	.....	65	....	121
45 to 50	697	411	286	....	3.23	3.48	2.93	58.97	41.03	17.94	.....	125	....	143
50 to 55	672	374	298	....	3.11	3.17	3.05	55.65	44.35	11.30	.....	76	....	125
55 to 60	701	414	287	....	3.25	3.50	2.94	59.06	40.94	18.12	.....	127	....	144
60 to 65	925	541	384	....	4.29	4.58	3.93	58.49	41.51	16.98	.....	157	....	140
65 to 70	948	540	408	....	4.39	4.58	4.18	56.96	43.04	13.92	.....	132	....	132
70 to 75	942	548	394	....	4.36	4.64	4.03	58.17	41.83	16.34	.....	154	....	139
75 to 80	856	480	376	....	3.97	4.07	3.85	56.08	43.92	12.16	.....	104	....	127
80 to 85	643	373	270	....	2.98	3.16	2.76	58.00	42.00	16.00	.....	103	....	138
85 to 90	340	194	146	....	1.58	1.64	1.49	57.06	42.94	14.12	.....	48	....	132
90 to 95	103	55	48	....	.48	.47	.49	53.40	46.60	6.80	.....	7	....	114
95 to 100	22	15	7	....	.10	.13	.07	68.18	31.82	36.36	.....	8	....	214
100 and over	10	6	4	....	.04	.05	.04	60.00	40.00	20.00	.....	2	....	150
Unknown ages	302	163	134	5	1.38	1.38	1.37	54.88	45.12	9.76	.....	29	....	121

TABLE 49.—*Exhibiting the per cent of deaths at different ages, for the years 1879–1890, and average for the twelve years.*

Years.	Under 1 year.	Under 5 years.	20 to 30	All others.
1879	24.68	39.52	8.23	52.25
1880	24.66	39.95	7.96	52.09
1881	24.20	40.68	9.00	50.32
1882	24.38	38.51	8.72	52.47
1883	24.83	38.26	9.37	52.37
1884	27.22	40.05	9.08	50.87
1885	26.10	37.61	8.95	53.44
1886	26.22	38.79	8.80	52.41
1887	25.39	37.94	8.84	53.22
1888	27.49	38.96	8.52	52.52
1889	26.01	37.72	8.84	52.28
1890	25.23	36.08	8.60	52.73
Average	25.58	38.69	8.74	50.73

The per cent of deaths at certain ages to inhabitants of same age is given in the table below. The large per cent for the deaths under one year has been mentioned before. The rate for 1889 was 10.70, and for 1888, 12.07.

	Under 1 year.	All under 5 years.	20 to 30.	All others.
Deaths, 1890	5,508	7,849	1,825	11,988
Population	49,415	225,112	351,804	1,280,274
Per cent of deaths to population	11.14	3.46	.52	.93

DEATHS BY MONTHS AT DIFFERENT AGES.

The influence of the time of the year in relation to the mortality of persons of different age is set forth in Table 50. As usual, the months of July, August and September proved most fatal to children under one year, as well as for all under five.

TABLE 50.—*The relation of the deaths at different periods of age to deaths at all ages, by months; and for the same period of age, the relation of the deaths in each month to the deaths in the year 1890.*

Deaths by ages in periods of years.		Year 1890.	Months, 1890.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
All ages		a 21,611	1,745	1,599	1,776	1,807	1,704	1,638	1,849	2,082	1,892	1,808	1,739	2,027
Under 1	Number	5,502	362	390	374	371	400	496	576	653	578	422	389	491
	Per cent of all ages	25.46	20.74	24.39	21.06	20.53	23.47	30.37	31.15	33.13	30.55	23.34	22.36	23.73
	Per cent of deaths, 1890	100.00	6.58	7.09	6.80	6.74	7.27	9.01	10.47	11.87	10.51	7.67	7.07	8.92
All under 5	Number	7,838	547	536	587	596	566	583	798	908	821	622	573	701
	Per cent of all ages	36.26	31.00	33.52	33.05	32.98	33.21	35.70	43.15	44.68	43.39	34.40	32.95	34.58
	Per cent of deaths, 1890	100.00	6.98	6.84	7.49	7.60	7.22	7.44	10.18	11.58	10.48	7.94	7.31	8.94
5 to 10	Number	1,094	75	87	80	110	94	85	70	97	110	92	89	105
	Per cent of all ages	5.06	4.29	5.44	4.50	6.08	5.51	5.21	3.78	4.77	5.81	5.08	5.11	5.17
	Per cent of deaths, 1890	1.00	6.86	7.95	7.31	10.05	8.59	7.78	6.40	8 87	10.05	8.41	8.13	9.60
10 to 20	Number	1,401	130	108	92	117	126	123	133	128	82	114	122	126
	Percent of all ages	6.48	7.45	6.75	5.18	6.47	7.39	7.53	7.19	6.29	4.33	6.30	7.01	6.21
	Per cent of deaths, 1890	100.00	9.28	7.71	6.57	8.35	9.00	8.77	9.49	9.13	5.85	8.14	8.71	9.00
20 to 50	Number	4,833	430	380	452	439	391	376	374	385	400	409	393	404
	Per cent of all ages	22.36	24.64	23.76	25.45	24.29	22.94	23.02	20.22	18.94	21.14	22.62	22.60	34.73
	Per cent of deaths, 1890	100.00	8.90	7.86	9.35	9.08	8.09	7.78	7.74	7.97	8.28	8.46	8.13	8.36
50 and over	Number	6,155	539	459	550	518	511	442	450	490	461	541	540	664
	Per cent of all ages	28.48	30.88	28.70	30.98	28.66	29.98	27.06	24.33	23.62	24.36	29.92	31.04	32.75
	Per cent of deaths, 1890	100.00	8.76	7.46	8.93	8.42	8.30	7.18	7.31	7.80	7.49	8.79	8.77	10.79
Unknown ages	Number	296	30	29	14	28	16	24	24	34	18	30	22	27
	Per cent of all ages	1.36	1.72	1.81	.79	.55	.93	1.40	1.29	1.67	.95	1.65	1.26	1.33
	Per cent of deaths, 1890	100.00	10.13	9.80	4.73	9.46	5.40	8.11	8.11	11.50	6.08	10.13	7.43	9.12

a Excluding unknown months.

TABLE 51.—*Exhibiting by sex and by age in periods of years, the number of persons returned, as having died in Michigan during the year 1890.*

Ages in periods of years.	Sex.	Year, 1890.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
All ages	Totals	21,642	1745	1599	1776	1807	1704	1633	1849	2032	1892	1808	1739	2027	31
	Males	11,801	961	871	920	995	904	901	1040	1152	993	1007	905	1139	13
	Females	9,771	780	726	850	807	793	729	803	873	887	800	824	882	17
	Unknown	70	4	2	6	5	7	3	6	7	12	1	10	6	1
Under 1	Totals	5,508	362	390	374	371	400	496	576	653	578	422	389	491	6
	Males	3,114	225	214	206	205	219	300	324	368	322	235	220	275	1
	Females	2,329	133	174	163	161	174	193	247	278	244	186	159	212	5
	Unknown	65	4	2	5	5	7	3	5	7	12	1	10	4	..
All under 5	Totals	7,849	541	536	587	596	566	583	798	908	821	622	573	701	11
	Males	4,286	314	293	317	333	310	312	433	506	443	339	313	369	3
	Females	3,498	223	241	265	258	249	268	360	395	366	282	250	323	8
	Unknown	65	4	2	5	5	7	3	5	7	12	1	10	4	..
5 to 10	Totals	1,096	75	87	80	110	94	85	70	97	110	92	89	105	2
	Males	575	36	40	38	60	53	50	44	59	59	43	34	58	1
	Females	521	39	47	42	50	41	35	26	38	51	49	55	47	1
10 to 15	Totals	621	59	47	46	45	63	50	58	57	37	47	54	58	..
	Males	313	23	29	18	27	29	24	40	34	20	19	23	27	..
	Females	308	36	18	28	18	34	26	18	23	17	28	31	31	..
15 to 20	Totals	782	71	61	46	72	63	73	75	71	45	67	68	63	2
	Males	388	30	32	18	43	29	38	35	31	23	32	34	43	..
	Females	394	41	29	28	29	34	35	40	40	22	35	34	25	2
20 to 25	Totals	907	82	62	72	73	79	81	70	78	82	79	74	75	..
	Males	445	40	25	35	34	43	46	32	56	40	38	21	35	..
	Females	462	42	37	37	39	36	35	38	22	42	41	53	40	..
25 to 30	Totals	918	91	86	86	89	68	71	86	71	73	55	61	80	1
	Males	469	44	47	41	41	33	42	43	40	27	26	36	49	..
	Females	449	47	39	45	48	35	29	43	31	46	29	25	31	1
30 to 35	Totals	812	63	55	77	74	66	56	52	71	76	68	73	80	1
	Males	410	31	28	34	38	33	29	27	37	45	31	32	44	1
	Females	402	32	27	43	36	33	27	25	34	31	37	41	36	..

TABLE 51.—CONTINUED.—*Deaths by periods of age, by sex, by month.*

Ages in periods of years.	Sex.	Year, 1890.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
35 to 40	Totals	813	80	61	86	78	63	53	67	51	73	74	56	71	..
	Males	427	43	33	41	42	26	26	40	29	33	41	32	41	..
	Females	386	37	28	45	36	37	27	27	22	40	33	24	30	..
40 to 45	Totals	683	54	60	61	58	54	59	57	59	44	60	66	50	1
	Males	374	36	32	27	50	23	30	26	31	18	40	39	37	..
	Females	309	18	28	34	23	31	29	31	28	26	20	27	13	1
45 to 50	Totals	707	60	56	70	61	61	56	42	55	52	73	63	48	..
	Males	417	28	32	40	38	32	39	29	38	24	44	37	30	..
	Females	290	32	24	30	23	29	17	13	17	28	29	26	18	..
50 to 55	Totals	672	70	58	67	49	60	48	50	45	50	65	51	58	1
	Males	374	40	28	31	29	38	26	35	17	24	40	29	36	1
	Females	298	30	30	36	20	22	22	15	28	26	25	22	22	..
55 to 60	Totals	701	65	36	77	60	56	56	44	49	54	61	69	74	..
	Males	414	40	18	44	32	34	37	27	32	31	36	35	48	..
	Females	287	25	18	33	28	22	19	17	17	23	25	34	26	..
60 to 65	Totals	925	76	71	77	79	84	54	74	78	66	75	86	104	1
	Males	541	48	50	41	56	47	25	39	45	34	53	51	52	..
	Females	384	28	21	36	23	37	29	35	33	32	22	35	52	1
65 to 70	Totals	948	80	74	84	80	78	63	79	82	71	84	70	103	..
	Males	540	46	31	49	44	43	38	48	53	38	43	42	65	..
	Females	408	34	43	35	36	35	25	31	29	33	41	28	38	..
70 to 75	Totals	942	70	68	81	91	78	84	60	75	78	71	84	101	1
	Males	548	46	37	45	52	42	48	40	43	47	46	46	56	..
	Females	394	24	31	36	39	36	36	20	32	31	25	38	45	1
75 to 80	Totals	856	84	72	81	65	73	45	65	66	60	75	84	85	1
	Males	480	47	44	41	31	35	29	42	41	27	50	48	45	..
	Females	376	37	28	40	34	38	16	23	25	33	25	36	40	1
80 to 85	Totals	643	56	48	46	43	44	52	43	56	50	64	59	79	3
	Males	373	35	34	29	24	19	29	25	27	31	42	29	47	2
	Females	270	21	14	17	19	25	23	18	29	19	22	30	32	1
85 to 90	Totals	330	19	26	25	37	29	29	22	20	23	28	26	46	..
	Males	184	9	15	15	20	18	16	11	12	10	11	12	35	..
	Females	146	10	11	10	17	11	13	11	8	13	17	14	11	..
90 to 95	Totals	103	13	5	9	11	7	8	10	6	7	7	9	11	..
	Males	55	7	3	5	4	3	5	7	4	4	4	3	6	..
	Females	48	6	2	4	7	4	3	3	2	3	3	6	5	..

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TABLE 51.—CONCLUDED.—*Deaths by periods of age, by sex, by month.*

Ages in periods of years.	Sex.	Year, 1890.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
95 to 100	Totals	22	5	----	3	1	----	2	3	2	2	1	2	1	--
	Males	15	2	----	2	----	----	2	3	2	1	1	1	1	--
	Females	7	3	----	1	1	----	----	----	----	1	----	1	----	--
100 and over	Totals	10	1	1	----	2	2	1	----	1	----	----	----	2	--
	Males	6	1	----	----	1	1	1	----	1	----	----	----	1	--
	Females	4	----	1	----	1	1	----	----	----	----	----	----	1	--
Unknown	Totals	302	30	29	14	28	16	24	24	34	18	30	22	27	6
	Males	163	15	20	9	11	13	9	14	14	13	18	8	14	5
	Females	134	15	9	5	16	3	15	9	20	5	12	14	11	--
	Unknown	5	----	----	----	1	----	----	1	----	----	----	----	2	1

TABLE 52.—*Exhibiting by sex, and by months, the number returned as having died in Michigan during the year 1890, at each and every age, the age stated in twelfths of a year, for those under one year, and in years for those over one year of age.*

Ages in years.	Sex.	Year, 1890.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Under 1-12	Totals	2,737	222	227	190	220	214	298	217	218	246	203	222	259	4
	Males	1,578	135	125	109	125	119	197	121	124	128	117	131	146	1
	Females	1,094	83	100	76	90	88	98	90	87	106	85	81	107	3
	Unknown	65	4	2	5	5	7	3	6	7	12	1	10	6	....
1-12	Totals	403	20	18	28	17	44	37	41	54	51	33	22	38	....
	Males	225	11	4	15	9	27	21	23	31	28	19	11	26	....
	Females	178	9	14	13	8	17	16	18	23	23	14	11	12	....
2-12	Totals	342	14	16	19	16	19	25	43	50	38	39	29	34	....
	Males	188	10	7	11	7	13	13	21	26	20	21	16	23	....
	Females	154	4	9	8	9	6	12	22	24	18	18	13	11	....
3-12	Totals	355	17	27	24	21	19	25	50	50	51	28	15	28	....
	Males	193	9	21	16	9	8	14	29	28	31	9	9	10	....
	Females	162	8	6	8	12	11	11	21	22	20	19	6	18	....
4-12	Totals	333	18	19	14	22	22	26	43	49	36	29	22	33	....
	Males	189	13	10	8	12	8	19	23	29	25	15	10	17	....
	Females	144	5	9	6	10	14	7	20	20	11	14	12	16	....
5-12	Totals	240	8	12	14	12	12	14	34	45	36	22	16	15	....
	Males	136	6	9	8	6	6	6	16	25	21	16	9	8	....
	Females	104	2	3	6	6	6	8	18	20	15	6	7	7	....
6-12	Totals	249	9	15	13	11	11	14	34	47	30	22	16	27	....
	Males	144	6	11	7	10	7	5	18	27	17	14	11	11	...
	Females	105	3	4	6	1	4	9	16	20	13	8	5	16	....
7-12	Totals	180	9	15	16	12	15	12	24	21	14	14	15	13	1
	Males	97	5	7	6	7	8	5	16	13	8	9	5	8	....
	Females	83	4	8	10	5	7	7	8	8	6	5	10	5	1
8-12	Totals	8	10	7	9	11	12	10	21	32	19	9	8	10	....
	Males	89	7	6	6	6	6	5	12	17	11	4	4	5	....
	Females	69	3	1	3	5	6	5	9	15	8	5	4	5	....
9-12	Totals	175	10	14	21	9	11	7	25	28	21	6	10	13	....
	Males	94	6	6	10	3	7	1	17	15	12	3	4	10	....
	Females	81	4	8	11	6	4	6	8	13	9	3	6	3	....

TABLE 52.—CONTINUED.—*Deaths by ages, by sex, by months.*

Ages in years.	Sex.	Year, 1890.	Months, 1890												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
10-12	Totals	168	11	10	17	7	12	14	22	30	20	6	8	11	----
	Males	88	8	3	6	3	7	6	12	19	11	3	6	4	----
	Females	80	3	7	11	4	5	8	10	11	9	3	2	7	----
	Totals	168	14	10	9	13	9	14	23	29	17	11	6	12	1
	Males	93	9	5	4	8	3	8	16	14	10	5	4	7	----
	Females	75	5	5	5	5	6	6	7	15	7	6	2	5	1
	Totals	974	68	58	74	74	67	69	112	146	115	64	53	70	4
	Males	456	31	32	30	34	33	34	50	74	55	25	25	31	2
	Females	518	37	26	44	40	34	35	62	72	60	39	28	39	2
	Totals	577	47	32	52	50	40	45	40	60	54	48	55	53	1
2	Males	300	25	14	26	27	18	28	20	27	34	18	34	29	----
	Females	277	22	18	26	23	22	17	20	33	20	30	21	24	1
	Totals	445	33	33	39	39	22	33	46	31	49	35	38	47	----
3	Males	236	17	17	20	21	14	19	24	21	21	18	19	25	----
	Females	209	16	16	19	18	8	14	22	10	28	17	19	22	----
	Totals	345	31	23	31	31	28	20	24	37	25	30	34	31	----
4	Males	180	16	16	18	16	16	11	15	16	11	20	15	19	----
	Females	165	15	7	13	15	12	9	9	21	14	10	19	21	----
	Totals	289	23	20	21	33	22	25	15	27	25	30	22	26	----
5	Males	150	14	10	8	20	12	13	7	16	13	16	9	12	----
	Females	139	9	10	13	13	10	12	8	11	12	14	13	14	----
	Totals	242	14	19	23	27	20	14	16	25	27	16	14	26	1
6	Males	140	5	7	14	19	10	7	10	14	18	12	5	18	1
	Females	102	9	12	9	8	10	7	6	11	9	4	9	8	----
	Totals	248	20	25	16	19	19	19	18	22	18	26	25	20	1
7	Males	114	8	13	3	7	10	11	11	15	7	7	10	12	----
	Females	134	12	12	13	12	9	8	7	7	11	19	15	8	1
	Totals	167	9	12	12	16	17	13	13	15	20	7	16	17	----
8	Males	98	5	7	9	7	12	10	10	10	10	4	4	10	----
	Females	69	4	5	3	9	5	3	3	5	10	3	12	7	----
	Totals	150	9	11	8	15	16	14	8	8	20	18	12	15	----
9	Males	73	4	3	4	7	9	9	6	4	11	4	6	6	----
	Females	77	5	8	4	8	7	5	2	4	9	9	6	10	----
	Totals	133	6	11	13	9	16	12	11	12	7	13	8	15	----
10	Males	67	1	7	7	5	8	5	8	6	2	7	6	5	----
	Females	66	5	4	6	4	8	7	3	6	5	6	2	10	----

TABLE 52.—CONTINUED.—*Deaths by ages, by sex, by months.*

Ages in years.	Sex.	Year, 1890.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
11	Totals	136	17	7	13	8	8	9	16	14	9	9	11	15	....
	Males	60	8	2	4	4	3	3	11	9	3	2	5	6	....
	Females	76	9	5	9	4	5	6	5	5	6	7	6	9	....
12	Totals	111	12	10	8	7	13	9	6	12	5	7	13	9	....
	Males	59	5	6	4	5	4	6	3	9	4	3	4	6	....
	Females	52	7	4	4	2	9	3	3	3	1	4	9	3	....
13	Totals	109	12	12	4	9	13	6	9	6	12	6	9	14	....
	Males	57	4	7	1	6	6	4	8	2	7	....	4	8	....
	Females	52	8	5	3	3	7	2	1	4	2	6	5	6	....
14	Totals	132	12	7	6	12	13	14	16	13	7	12	13	5	....
	Males	70	5	7	2	7	8	6	10	8	4	7	4	2	....
	Females	62	7	....	6	5	5	8	6	5	3	5	9	3	....
15	Totals	122	14	7	7	11	11	11	8	16	6	8	15	8	....
	Males	64	3	4	2	3	5	7	6	9	4	5	10	6	....
	Females	58	11	3	5	8	6	4	2	7	2	3	5	2	....
16	Totals	151	12	8	6	15	14	15	13	16	7	14	17	13	1
	Males	71	5	4	2	7	9	5	8	7	3	6	6	9	....
	Females	80	7	4	4	8	5	10	5	9	4	8	11	4	1
17	Totals	157	12	11	11	17	12	12	17	12	4	19	14	16	....
	Males	85	8	6	5	13	6	7	6	5	2	11	6	10	....
	Females	72	4	5	6	4	6	5	11	7	2	8	8	6	....
18	Totals	175	18	17	10	16	9	21	17	12	14	14	11	15	1
	Males	81	6	8	3	11	3	10	6	4	9	6	6	9	....
	Females	94	12	9	7	5	6	11	11	8	5	8	5	6	1
19	Totals	177	15	18	12	13	17	14	20	15	14	12	11	16	....
	Males	87	8	10	6	9	6	9	9	6	5	4	6	9	....
	Females	90	7	8	6	4	11	5	11	9	9	8	5	7	....
20	Totals	149	19	9	14	9	17	9	10	17	8	16	11	10	....
	Males	71	7	4	7	3	9	6	4	10	3	9	4	5	....
	Females	78	12	5	7	6	8	3	6	7	5	7	7	5	....
21	Totals	182	16	14	11	13	15	16	17	13	23	13	11	20	....
	Males	88	10	6	4	4	6	12	10	10	11	6	2	7	....
	Females	94	6	8	7	9	9	4	7	3	12	7	9	13	....
22	Totals	219	18	18	15	21	19	22	14	11	17	24	23	17	....
	Males	110	7	6	11	9	12	14	7	9	9	12	7	7	....
	Females	109	11	12	4	12	7	8	7	2	8	12	16	10	....

TABLE 52.—CONTINUED.—*Deaths by ages, by sex, by months.*

Ages in years.	Sex.	Year, 1890.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
23	Totals	196	13	11	16	17	10	21	14	18	19	17	17	13	....
	Males	94	6	2	7	13	5	9	5	12	6	7	3	9	....
	Females	102	7	9	9	4	5	12	9	6	13	10	14	4	....
24	Totals	171	16	10	16	13	18	13	15	19	15	9	12	15	....
	Males	92	10	7	6	5	11	5	6	15	11	4	5	7	....
	Females	79	6	3	10	8	7	8	9	4	4	5	7	8	....
25	Totals	163	18	11	16	15	14	10	14	15	13	9	8	20	....
	Males	77	6	6	7	4	7	5	6	10	6	5	4	11	....
	Females	86	12	5	9	11	7	5	8	5	7	4	4	9	....
26	Totals	190	22	24	14	16	11	18	16	15	15	12	9	18	....
	Males	109	13	13	7	7	7	12	10	8	9	4	6	13	....
	Females	81	9	11	7	9	4	6	6	7	6	8	3	5	....
27	Totals	180	11	19	15	19	16	12	20	14	18	8	14	14	....
	Males	84	4	11	7	9	4	8	11	8	4	2	8	8	....
	Females	96	7	8	8	10	12	4	9	6	14	6	6	6	....
28	Totals	193	18	14	25	19	16	13	14	14	15	13	14	17	1
	Males	101	8	9	14	13	7	6	7	5	4	10	10	8	....
	Females	92	10	5	11	6	9	7	7	9	11	3	4	9	1
29	Totals	183	22	18	16	20	11	18	22	13	12	13	16	11	....
	Males	98	13	8	6	8	8	11	9	9	4	5	8	9	....
	Females	85	9	10	10	12	3	7	13	4	8	8	8	2	....
30	Totals	174	11	17	19	18	13	12	14	13	13	16	15	13	1
	Males	85	5	11	8	7	6	5	10	5	6	9	6	6	1
	Females	89	6	6	11	11	7	7	4	8	7	7	9	7	....
31	Totals	123	8	10	9	8	10	12	11	9	14	11	9	12	....
	Males	64	2	3	3	3	8	4	6	7	9	4	7	8	....
	Females	59	6	7	6	5	2	8	5	2	5	7	2	4	....
32	Totals	198	19	9	16	18	19	13	11	15	21	15	18	24	....
	Males	109	12	3	8	12	8	8	5	11	13	6	8	15	....
	Females	89	7	6	8	6	11	5	6	4	8	9	10	9	....
33	Totals	160	12	12	13	18	13	9	5	13	18	16	12	19	....
	Males	80	6	8	7	8	6	7	1	5	11	9	3	9	....
	Females	80	6	4	6	10	7	2	4	8	7	7	9	10	....
34	Totals	157	13	7	20	12	11	10	11	21	11	10	19	12	....
	Males	72	6	3	8	8	5	5	5	9	6	3	8	6	....
	Females	85	7	4	12	4	6	5	6	12	5	7	11	6	....

TABLE 52.—CONTINUED.—*Deaths by ages, by sex, by months.*

Ages in years.	Sex.	Year, 1890.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
35	Totals	183	17	14	19	18	14	12	13	11	22	20	12	11	....
	Males	101	9	8	9	7	6	7	10	6	8	13	7	11	....
	Females	82	8	6	10	11	8	5	3	5	14	7	5	....	....
36	Totals	162	14	13	17	8	12	12	17	11	8	16	13	21	....
	Males	82	7	7	7	4	7	4	11	6	3	9	5	12	....
	Females	80	7	6	10	4	5	8	6	5	5	7	8	9	....
37	Totals	178	18	14	22	18	17	16	13	12	13	11	9	15	....
	Females	93	10	8	12	10	5	7	8	5	5	7	5	11	....
	Males	85	8	6	10	8	12	9	5	7	8	4	4	4	....
38	Totals	156	17	13	21	21	9	9	11	8	12	12	9	14	....
	Males	77	8	6	9	13	4	6	5	6	6	6	4	4	....
	Females	79	9	7	12	8	5	3	6	2	6	6	5	10	....
39	Totals	134	14	7	7	13	11	4	13	9	18	13	13	10	....
	Males	74	9	4	4	8	4	2	6	6	11	6	11	3	....
	Females	60	5	3	3	5	7	2	7	3	7	9	2	7	....
40	Totals	140	15	11	16	12	15	13	8	12	12	8	7	11	....
	Males	80	14	6	7	4	6	9	3	6	6	6	6	7	....
	Females	60	1	5	9	8	9	4	5	6	6	2	1	4	....
41	Totals	104	8	10	13	9	6	6	12	10	6	7	9	8	....
	Males	53	4	8	6	6	2	2	2	8	2	3	4	6	....
	Females	51	4	2	7	3	4	4	10	2	4	4	5	2	...
42	Totals	177	12	24	13	9	19	14	13	9	8	17	21	17	1
	Males	97	5	12	4	5	9	9	9	4	4	13	11	12	...
	Females	80	7	12	9	4	10	5	4	5	4	4	10	5	1
43	Totals	138	9	10	7	15	11	17	11	13	12	6	18	9	....
	Males	71	7	4	3	10	5	9	3	3	5	4	10	8	..
	Females	67	2	6	4	5	6	8	8	10	7	2	8	1	.
44	Totals	124	10	5	12	13	3	9	13	15	6	22	11	5	....
	Males	73	6	2	7	10	1	1	9	10	1	14	8	4	...
	Females	51	4	3	5	3	2	8	4	5	5	8	3	1	
45	Totals	160	11	11	16	10	14	15	8	13	9	22	17	12	....
	Males	89	6	4	9	7	9	8	7	5	3	12	7	8	..
	Females	70	5	7	7	3	5	7	1	5	6	10	10	4	...
46	Totals	136	13	8	19	10	10	7	8	6	14	16	14	11	.
	Males	86	5	7	11	6	4	6	6	4	6	12	12	7	
	Females	50	8	1	8	4	6	1	2	2	8	4	2	4	.

TABLE 52.—CONTINUED.—*Deaths by ages, by sex, by months.*

Ages by years.	Sex.	Year, 1890.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
47	Totals	150	18	15	9	10	14	11	8	21	12	16	10	6	....
	Males	89	7	8	4	4	9	10	5	15	8	9	6	4	....
	Females	61	11	7	5	6	5	1	3	6	4	7	4	2	....
48	Totals	143	12	10	17	18	14	10	14	8	9	10	11	10	....
	Males	74	6	5	9	11	5	5	8	5	4	5	6	5	....
	Females	69	6	5	8	7	9	5	6	3	5	5	5	5	....
49	Totals	110	6	12	9	13	9	13	4	7	8	9	11	9	....
	Males	74	4	8	7	10	5	10	3	6	3	6	6	6	....
	Females	36	2	4	2	3	4	3	1	1	5	3	5	3	....
50	Totals	133	14	12	12	11	12	9	12	16	5	11	6	12	1
	Males	67	3	6	6	6	7	5	10	5	3	6	1	8	1
	Females	66	11	6	6	5	5	4	2	11	2	5	5	4	....
51	Totals	105	9	12	8	9	7	11	7	4	9	10	9	10	....
	Males	62	5	7	8	2	4	8	4	1	3	7	6	7	....
	Females	43	4	5	....	7	3	3	3	3	6	3	3	3	....
52	Totals	142	10	9	17	11	12	7	8	10	13	16	16	13	....
	Males	80	7	4	6	10	9	2	5	5	6	9	10	7	....
	Females	62	3	5	11	1	3	5	3	5	7	7	6	6	....
53	Totals	124	16	9	9	6	9	8	10	5	11	20	11	10	....
	Males	72	11	4	3	2	6	3	8	3	6	12	8	6	....
	Females	52	5	5	6	4	3	5	2	2	5	8	3	4	....
54	Totals	168	21	16	21	12	20	13	13	10	12	8	9	13	....
	Males	93	14	7	8	9	12	8	8	3	6	6	4	8	....
	Females	75	7	9	13	3	8	5	5	7	6	2	5	5	....
55	Totals	131	8	11	16	16	10	13	12	8	7	7	14	9	....
	Males	79	5	5	11	10	6	6	7	7	5	6	6	5	....
	Females	52	3	6	5	6	4	7	5	1	2	1	8	4	....
56	Totals	168	13	2	22	11	17	12	10	14	19	13	18	17	....
	Males	101	5	2	10	6	13	8	6	11	12	9	7	12	....
	Females	67	8	....	12	5	4	4	4	3	7	4	11	5	....
57	Totals	120	12	8	10	10	11	11	12	6	9	10	8	13	....
	Males	69	7	5	7	7	3	8	8	1	4	3	7	9	....
	Females	51	5	3	3	3	8	3	4	5	5	7	1	4	....
58	Totals	145	16	6	16	14	9	11	5	12	8	14	14	20	....
	Males	84	9	2	9	6	6	9	3	5	5	7	8	15	....
	Females	61	7	4	7	8	3	2	2	7	3	7	6	5	....

TABLE 52.—CONTINUED.—*Deaths by ages, by sex, by months.*

Ages in years.	Sex.	Year, 1890.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
59	Totals	137	16	9	13	9	9	9	5	9	11	17	15	15	....
	Males	81	14	4	7	3	6	6	3	8	5	11	7	7	....
	Females	56	2	5	6	6	3	3	2	1	6	6	8	8	....
60	Totals	194	18	17	19	13	22	8	9	12	12	16	22	26	....
	Males	120	15	14	10	11	13	3	4	6	6	12	11	15	....
	Females	74	3	3	9	2	9	5	5	6	6	4	11	11	....
61	Totals	121	6	16	11	10	12	8	9	8	4	11	12	14	....
	Males	67	5	11	6	6	5	4	4	5	2	8	6	5	....
	Females	54	1	5	5	4	7	4	5	3	2	3	6	9	....
62	Totals	174	10	8	11	18	15	14	16	20	19	9	14	20	....
	Males	105	5	4	7	13	11	8	9	14	10	6	8	10	....
	Females	69	5	4	4	5	4	6	7	6	9	3	6	10	....
63	Totals	217	21	18	17	15	20	13	17	16	16	20	20	23	1
	Males	127	14	13	10	10	8	5	9	12	7	13	12	14	....
	Females	90	7	5	7	5	12	8	8	4	9	7	8	9	1
64	Totals	219	21	12	19	23	15	11	23	22	15	19	18	21	....
	Males	122	9	8	8	16	10	5	13	8	9	14	14	8	....
	Females	97	12	4	11	7	5	6	10	14	6	5	4	13	....
65	Totals	224	22	27	19	16	9	14	18	15	22	19	17	26	....
	Males	122	12	17	11	7	5	7	12	10	10	8	9	14	....
	Females	102	10	10	8	9	4	7	6	5	12	11	8	12	....
66	Totals	157	16	9	12	16	13	9	13	8	16	12	10	18	....
	Males	92	11	3	7	10	8	5	10	5	7	8	6	12	....
	Females	65	5	6	5	6	5	4	8	3	9	4	4	6	....
67	Totals	214	17	13	21	15	13	17	24	29	8	21	14	22	....
	Males	119	12	1	11	10	8	10	14	17	5	11	9	11	....
	Females	95	5	12	10	5	5	7	10	12	3	10	5	11	....
68	Totals	192	13	15	19	17	20	12	10	14	16	20	17	19	....
	Males	109	5	7	9	11	13	9	6	8	11	7	9	14	....
	Females	83	8	8	10	6	7	3	4	6	5	13	8	5	....
69	Totals	161	12	10	13	16	23	11	9	16	9	12	12	18	....
	Males	98	6	3	11	6	9	7	6	13	5	9	9	14	....
	Females	63	6	7	2	10	14	4	3	3	4	3	3	4	....
70	Totals	235	19	17	23	23	21	14	15	19	13	20	15	35	1
	Males	133	13	11	10	13	14	10	7	12	8	12	7	16	....
	Females	102	6	6	13	10	7	4	8	7	5	8	8	19	1

TABLE 52.—CONTINUED.—*Deaths by ages, by sex, by months.*

Ages in years.	Sex.	Year, 1890.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
71	Totals	164	13	13	11	18	10	15	13	13	15	13	16	14	....
	Males	82	8	5	8	7	4	4	7	8	7	7	7	10	....
	Females	82	5	8	3	11	6	11	6	5	8	6	9	4	....
72	Totals	188	16	15	17	18	15	21	13	10	16	12	19	16	....
	Males	112	11	7	5	14	8	12	9	5	12	8	14	7	....
	Females	76	5	8	12	4	7	9	4	5	4	4	5	9	....
73	Totals	182	10	10	11	15	17	23	8	16	20	16	20	16	....
	Males	106	5	5	9	5	8	15	8	9	11	12	9	10	....
	Females	76	5	5	2	10	9	8	....	7	9	4	11	6	....
74	Totals	173	12	13	19	17	15	11	11	17	14	10	14	20	....
	Males	115	9	9	13	13	8	7	9	9	9	7	9	13	....
	Females	58	3	4	6	4	7	4	2	8	5	3	5	7	....
75	Totals	201	26	17	13	14	13	9	16	14	14	20	19	26	....
	Males	115	18	11	6	7	5	7	9	11	7	14	9	11	....
	Females	86	8	6	7	7	8	2	7	3	7	6	10	15	....
76	Totals	170	15	13	23	17	9	7	12	12	14	14	21	13	....
	Males	92	6	9	14	10	4	5	8	6	6	9	11	4	....
	Females	78	9	4	9	7	5	2	4	6	8	5	10	9	....
77	Totals	145	14	12	12	12	17	8	9	18	7	11	15	10	....
	Males	74	7	5	9	4	6	4	6	10	4	6	8	5	....
	Females	71	7	7	3	8	11	4	3	8	3	5	7	5	....
78	Totals	188	16	15	23	9	21	14	15	15	13	10	19	18	....
	Males	109	9	8	9	4	13	7	13	10	4	7	13	12	....
	Females	79	7	7	14	5	8	7	2	5	9	3	6	6	....
79	Totals	152	13	15	10	13	13	7	13	7	12	20	10	18	1
	Males	90	7	11	3	6	7	6	6	4	6	14	7	13	....
	Females	62	6	4	7	7	6	1	7	3	6	6	3	5	1
80	Totals	163	18	11	14	11	9	12	8	22	12	14	15	16	1
	Males	94	11	6	10	6	4	8	5	11	10	10	6	7	....
	Females	69	7	5	4	5	5	4	3	11	2	4	9	9	1
81	Totals	105	10	6	6	4	12	9	9	9	6	13	8	13	....
	Males	56	4	5	6	2	5	4	6	3	3	8	4	6	....
	Females	49	6	1	....	2	7	5	3	6	3	5	4	7	....
82	Totals	134	15	12	4	9	6	11	12	12	11	17	11	13	1
	Males	83	11	9	3	4	3	7	8	8	9	9	3	8	1
	Females	51	4	3	1	5	3	4	4	4	2	8	8	5	....

TABLE 52.—CONTINUED.—*Deaths by ages, by sex, by months.*

Ages in years.	Sex.	Year, 1890.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
83	Totals	108	3	13	7	8	9	6	7	7	8	12	12	16	----
	Males	66	1	11	3	6	4	2	3	2	4	10	9	11	----
	Females	42	2	2	4	2	5	4	4	5	4	2	3	5	----
84	Totals	133	10	6	15	11	8	14	7	6	13	8	13	21	1
	Males	74	8	3	7	6	3	8	3	3	5	5	7	15	1
	Females	59	2	3	8	5	5	6	4	3	8	3	6	6	----
85	Totals	85	8	4	8	12	5	7	5	6	6	8	7	9	----
	Males	48	2	3	6	6	5	5	4	4	3	2	4	4	----
	Females	37	6	1	2	6	----	2	1	2	3	6	3	5	----
86	Totals	80	1	5	8	5	10	4	6	3	7	11	10	8	----
	Males	39	----	2	5	3	4	1	2	2	2	8	5	5	----
	Females	41	1	3	3	2	6	3	4	1	7	3	5	3	----
87	Totals	74	3	9	4	7	9	8	4	4	5	10	5	6	----
	Males	42	3	4	2	4	4	4	2	2	3	6	2	6	----
	Females	32	----	5	2	3	5	4	2	2	2	4	3	----	----
88	Totals	51	2	6	3	8	2	6	3	4	1	5	2	9	----
	Males	30	1	4	2	5	2	3	1	2	1	2	----	7	----
	Females	21	1	2	1	3	----	3	2	2	----	3	2	2	----
89	Totals	51	5	2	2	5	3	4	4	3	3	4	2	14	----
	Males	36	3	2	----	2	3	3	2	2	2	3	1	13	----
	Females	15	2	----	2	3	----	1	2	1	1	1	1	1	----
90	Totals	45	8	2	1	4	2	5	6	4	2	2	3	6	----
	Males	19	4	1	----	1	----	2	3	3	----	1	----	4	----
	Females	26	4	1	1	3	2	3	3	1	2	1	3	2	----
91	Totals	16	2	1	3	----	1	----	1	1	1	----	3	3	----
	Males	10	2	1	3	----	----	----	1	----	----	----	1	2	----
	Females	6	----	----	----	----	1	----	----	1	1	----	2	1	----
92	Totals	12	1	----	2	4	----	1	----	----	2	1	1	----	----
	Males	7	----	----	1	2	----	1	----	----	2	1	----	----	----
	Females	5	1	----	1	2	----	----	----	----	----	----	1	----	----
93	Totals	15	1	1	1	----	3	----	2	1	2	2	----	2	----
	Males	9	----	1	----	----	2	----	2	1	2	1	----	----	----
	Females	6	1	----	1	----	1	----	----	----	----	1	----	2	----
94	Totals	15	1	1	2	3	1	2	1	----	----	2	2	----	----
	Males	10	1	----	1	1	1	2	1	----	----	1	2	----	----
	Females	5	----	1	1	2	----	----	----	----	----	1	----	----	----

TABLE 52.—CONCLUDED.—*Deaths by ages, by sex, by months.*

Ages in years.	Sex.	Year, 1890.	Months, 1890.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
95	Totals	7	2	----	1	----	----	----	1	----	----	1	1	1	----
	Males	5	1	----	----	----	----	----	1	----	----	1	1	1	----
	Females	2	1	----	1	----	----	----	----	----	----	----	----	----	----
96	Totals	6	----	----	1	----	----	1	1	2	1	----	----	----	----
	Males	5	----	----	1	----	----	1	1	2	----	----	----	----	----
	Females	1	----	----	----	----	----	----	----	----	1	----	----	----	----
97	Totals	2	1	----	----	----	----	----	----	----	1	----	----	----	----
	Males	2	1	----	----	----	----	----	----	----	1	----	----	----	----
	Females	----	----	----	----	----	----	----	----	----	----	----	----	----	----
98	Totals	5	1	----	1	----	----	1	1	----	----	----	1	----	----
	Males	3	----	----	1	----	----	1	1	----	----	----	----	----	----
	Females	2	1	----	----	----	----	----	----	----	----	----	1	----	----
99	Totals	2	1	----	----	1	----	----	----	----	----	----	----	----	----
	Males	----	----	----	----	----	----	----	----	----	----	----	----	----	----
	Females	2	1	----	----	1	----	----	----	----	----	----	----	----	----
100 and over	Totals	10	1	1	----	2	2	1	----	1	----	----	----	2	----
	Males	6	1	----	----	1	1	1	----	1	----	----	----	1	----
	Females	4	----	1	----	1	1	----	----	----	----	----	----	1	----
Unknown	Totals	302	30	29	14	27	16	24	24	35	18	30	22	28	5
	Males	163	15	20	9	11	13	9	14	14	13	18	8	14	5
	Females	134	15	9	5	16	3	15	9	20	5	12	14	11	----
	Unknown	5	----	----	----	----	----	----	1	1	----	----	----	3	----

INFANT MORTALITY.

There were 1,397 still births reported for 1890. For 1889 there were 1,202, and for 1888, 1,358. All of these years, as will be seen by the table are above the number for the ten years average, which is 940.

TABLE 53.—*The relation of still births to all deaths as returned for the years 1888-1890, and the average for ten years 1880-1889, corrected by means of the returns of births.*

	Total deaths and still births.			
	1888.	1889.	1890.	Av. for 10 years, 1880-1889.
All deaths	21,764	20,315	21,642	18,312
Number of still births	1,358	1,202	1,397	940
Per cent of still births to total deaths	6.24	5.92	6.45	5.13

RELATIONS OF DEATHS OF CHILDREN UNDER ONE TO BIRTHS.

Tables 54, 55 and 56 are designed to show the influence of the different seasons upon the lives of young children. Table 54, though somewhat complicated in its construction, may be easily understood by a little careful study. It comprises four distinct showings or exhibits, and in order to more easily comprehend each, and all of these combined, it will be advisable to study the table in parts.

The months of the year, as arranged at the left of the table, represent the months during which the deaths occurred. The numbers as arranged at the top of the table, indicate the ages in months of those who died during each month of the year.

In order to clearly understand the use or object of the heavy angling line running through the table, it will be well to study separately two or three of the horizontal lines of figures representing the deaths which occurred during each month by ages, beginning with January. This being the first month of the year of death, it will be seen by a little reflection, that all who died during the month of January under one month of age, were also born during the same month, being the first month of the year of death; while those who died at *one month* of age were born in December, the last month of the previous year.

Hence there is drawn a short perpendicular line between those *under* one month of age, and those *at* one month of age, thus separating those who were born during the year of death from those who were born during the previous year.

Take again the month of February; it will readily be seen that those dying at one month of age were born in January, the *first* month of the year of death, while those dying at two months of age, were born in December, the *last* month of the previous year. Here the short perpendicular line is drawn between those at *one* month of age and those at *two* months of age, thus separating, as for the month of January, those who were born during the year of death, from those who were born during the previous year. These short perpendicular lines connected by short horizontal lines make up the heavy angling line which runs diagonally through the entire table, separating, for all the months of the year of death, those who were born during the year of death from those who were born during the previous year. One other valuable exhibit in the table is the month of birth of all those who died during each month of the year. As has already been shown, the heavy angling line separates the year of death from

the previous year. This being true, it may be seen at a glance that the first diagonal columns of figures at the left of the angling line would represent the births for the month of January, the first month of the year of death, the second column would represent the births for the month of February, the second month of the year of death, the third, for the month of March, the third month of the year of death, and so on through the year. The diagonal column of figures at the right of the angling line would represent the births for the month of December, the second column at the right, the births for November, the third, those for October, and so back through the previous year. It will be seen that the diagonal columns representing the months of birth on the left of the angling line, running upward, terminate opposite their respective months. This is not accidental but in harmony with an invariable rule; for, having given the month of death and the age in months, to find the month of birth, we necessarily count backward as many months as the child is months old. For instance: a child dying in February at one month of age, was born in January, one month previous; a child dying in March at two months of age, was born in January, two months previous. A child dying in April at three months of age, was born in January, three months previous, etc. The diagonal columns at the right of the angling line, running downward, representing births, also terminate opposite their respective months, the first opposite the month of December, the second opposite the month of November, the third opposite the month of October, etc.

In footing the diagonal columns, those on the left of the angling line are footed toward the top, the results being placed opposite the months; those on the right of the angling line are footed downward, these results also being placed opposite the months. The manner of footing the perpendicular columns and horizontal lines, is too plain to need explanation.

Table 55 shows the number of children who were born in each month during the year 1889 and who died in 1889 and 1890 under one year. The number of deaths and births, and proportion for each sex and every month can be seen by this table.

In Table 56 the ages and months of death of children who died under one year of age are given. The first column of figures at the left of the table shows the number of children born in 1889, and in each month of that year who died before reaching the age of one year. The first diagonal column shows that a very large proportion of the children die during the month of birth, or under one month old. Of the 424 children born in January, 1889, 179 died in the month of birth, 28 in February, and so on through the year. The last column in the table shows what per cent of the children born in each month of the year 1889 died during the month of birth.

TABLE 54.—*Ex*
1890, distingui
born in year of

Months in which births and deaths occurred.		Nu	
		Year.	
January		1890.	
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			
Deaths by ages.	Of those born in year of death.	1890.	
	Of those born in previous year.	1889.	
	All aged under one year.		

* Excluding thos

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TABLE 55.—*Of the children born in 1890, the number who died during the year 1889, the number who died during the year 1890, under one year of age, and the per cent of the decedents under one year to children born in 1889, according to the returns.*

Months of births.	Births in 1889 as returned.	Born in 1889.				Births of males 1889 as returned.	Males born in 1889.				Births of females 1889 as returned.	Females born in 1889.			
		Died during the year 1889.	Died aged under 1 year during the year 1890.	Total died aged under 1 year.	Per cent of deaths under 1 to births.		Died during the year 1889.	Died aged under 1 year during the year 1890.	Total died aged under 1 year.	Per cent of deaths under 1 to births.		Died during the year 1889.	Died aged under 1 year during the year 1890.	Total died aged under 1 year.	Per cent of deaths under 1 to births.
Totals a	49,219	4,322	987	5,309	10.78	25,617	2,396	558	2,954	11.53	23,559	1,926	429	2,355	9.99
January	3,340	424	.....	424	12.69	1,756	238	.....	238	13.55	1,582	186	.....	186	11.75
February	3,104	385	14	399	12.85	1,607	210	9	219	13.62	1,495	175	5	180	12.04
March	4,001	465	21	486	12.14	2,128	248	13	261	12.26	1,867	217	8	225	12.05
April	4,057	458	29	487	12.00	2,081	255	13	268	12.87	1,974	203	16	219	11.09
May	4,238	391	54	445	10.50	2,181	217	27	244	11.18	2,056	174	27	201	9.77
June	4,050	406	53	459	11.33	2,096	205	27	232	11.06	1,950	201	26	227	11.64
July	4,252	384	68	452	10.63	2,256	231	37	268	11.87	1,991	153	31	184	9.24
August	4,526	345	98	443	9.78	2,370	194	58	252	10.63	2,152	151	40	191	8.87
September	4,382	304	125	429	9.78	2,275	172	69	241	10.59	2,101	132	56	188	8.94
October	4,292	256	158	414	9.64	2,247	137	96	233	10.36	2,041	119	62	181	8.86
November	4,331	250	170	420	9.69	2,252	148	100	248	11.01	2,075	102	70	172	8.28
December	4,646	254	197	451	9.70	2,368	141	109	250	10.55	2,275	113	88	201	8.83

a Excluding 53 in unknown month; 25 males, 23 females, and 5 unknown.

TABLE 56.—*The months of births and of deaths of children born in 1889, who died under one year of age.*

Months of births, 1889.	Born in 1889 died under 1 year of age.	Months of death, 1889.												Months of death, 1890.												Per cent died aged under 1 month, a	Births in 1889 as returned, b	Per cent of children who died aged under 1 month to all children born, c
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.			
Born in 1889 died aged under 1 year	5,309	179	187	274	259	258	289	429	651	595	407	355	439	140	145	137	97	82	71	115	119	58	17	6	....	.....	49,219	.....
January	424	179	28	30	18	21	14	42	42	22	12	5	11	....	....	....	....	....	....	....	....	....	....	....	....	42.21	3,340	5.35
February	399	....	159	26	14	19	15	32	51	33	21	9	6	14	....	....	....	....	....	....	....	....	....	....	....	39.85	3,104	5.12
March	486	....	....	218	25	16	22	38	65	40	15	12	14	11	10	....	....	....	....	....	....	....	....	....	....	44.85	4,001	5.45
April	487	....	....	....	202	36	31	40	64	41	19	10	15	10	10	9	....	....	....	....	....	....	....	....	....	41.47	4,057	4.97
May	445	....	....	....	....	166	20	39	72	43	24	13	14	10	14	17	13	....	....	....	....	....	....	....	....	37.30	4,238	3.91
June	450	....	....	....	....	....	187	45	60	61	21	18	14	9	7	21	7	9	....	....	....	....	....	....	....	40.74	4,050	4.61
July	452	....	....	....	....	....	....	193	69	62	33	12	15	9	15	9	9	12	14	....	....	....	....	....	....	42.70	4,252	4.53
August	443	....	....	....	....	....	....	....	228	53	32	18	14	8	15	16	11	11	14	23	....	....	....	....	....	51.46	4,526	5.03
September	429	....	....	....	....	....	....	....	....	240	29	11	24	18	12	13	12	12	7	22	29	....	....	....	....	55.94	4,382	5.47
October	414	....	....	....	....	....	....	....	....	....	201	33	22	17	19	14	11	15	10	25	30	17	....	....	....	48.55	4,292	4.68
November	420	....	....	....	....	....	....	....	....	....	....	214	36	14	27	14	12	11	12	21	28	20	11	....	....	50.95	4,331	4.94
December	451	....	....	....	....	....	....	....	....	....	....	....	254	20	16	24	22	12	14	24	32	21	6	6	....	56.31	4,646	5.46
Deaths at each age. No. of deaths	5,309	....	....	....	....	....	....	....	....	....	....	....	....	2441	420	347	375	301	267	252	217	182	181	160	166	45.97	.....	4.37
Deaths at each age. Ages in Mos.	.....	....	....	....	....	....	....	....	....	....	....	....	....	-1	1	2	3	4	5	6	7	8	9	10	11	.....	.....	.....

a That is per cent of children who died during month of birth to total born in 1889 who died under age of one year.
b Excluding 53 in unknown month; 25 males, 23 females, and 5 unknown.
c That is of the children born in 1889 who died during month of birth.

TABLE 58.—*Counties and townships from which no returns of deaths for 1890 were received by this department, showing population in 1884.*

Counties.	Townships from which no returns of deaths for 1890 were received.	Population, June, 1884.																				
		Totals.			Color or race.												Nativity.					
					White.			Black and Mulatto.			Indian.			Unknown color.			Native.		Foreign.		Unknown.	
		Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Total		11,861	6,711	5,150	11,086	6,315	4,771	41	19	22	766	360	346	28	17	11	4,285	3,667	2,355	1,452	71	31
Charlevoix	Bear Lake	220	122	98	205	115	90	----	----	----	15	7	8	----	----	----	101	87	21	11	----	----
	Hayes	685	360	325	439	236	203	20	6	14	226	118	108	----	----	----	302	262	58	63	----	----
	Hudson	117	61	56	112	57	55	5	4	1	----	----	----	----	----	----	51	47	10	9	----	----
	Resort	194	100	94	186	96	90	----	----	----	8	4	4	----	----	----	66	63	34	31	----	----
Chippewa	Sugar Is.	446	219	227	318	162	156	----	----	----	109	45	64	19	12	7	105	121	90	83	24	23
	Superior	680	408	272	557	339	218	----	----	----	115	65	50	8	4	4	179	141	227	131	2	----
	Trout Lake*	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
	White Fish*	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Crawford	Ball	130	77	53	130	77	53	----	----	----	----	----	----	----	----	----	54	36	23	16	----	1
	Maple Forest	148	90	58	148	90	58	----	----	----	----	----	----	----	----	----	67	41	23	17	----	----
	Beaver Creek	182	92	90	182	92	90	----	----	----	----	----	----	----	----	----	88	85	4	5	----	----
	Blaine*	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
	Centre Plains	351	188	163	351	188	163	----	----	----	----	----	----	----	----	----	164	147	23	15	1	1
	Frederick	355	240	115	353	239	114	2	1	1	----	----	----	----	----	----	118	83	122	32	----	----
	Grove	177	107	70	177	107	70	----	----	----	----	----	----	----	----	----	75	60	32	10	----	----

Emmet	Bear Creek	3 236	1,645	1,591	3,075	1,567	1,508	6	3	3	154	74	80	1	1		1,262	1,235	377	355	6	1
	Eggleston	114	57	57	114	57	57										44	41	13	16		
Iosco	Baldwin	1,762	986	776	1,757	983	774	5	3	2							498	426	473	348	20	2
	Sherman	199	147	52	198	146	52	1	1								68	24	79	28		
Iron *																						
Lake	Center	79	46	33	79	46	33										40	31	6	2		
	Eden	71	46	25	71	46	25										33	24	13	1		
	Pleasant Plains	800	483	317	798	482	316	2	1	1							298	255	169	59	16	3
Ogemaw	Foster	299	157	142	299	157	142										137	118	19	24	1	
	Ogemaw	242	146	96	234	140	94				8	6	2				77	49	68	47	1	
	Rose	145	76	69	145	76	69										56	56	20	13		
Roscommon	Denton	183	119	64	183	119	64										70	37	49	27		
	Gerrish	251	193	58	251	193	58										94	44	99	14		
Schoolcraft	Harrison *																					
	Hiawatha	795	546	249	724	505	219				71	41	30				243	154	303	95		

* Organized since census was taken.

TABLE 140. *Exhibiting certain details concerning persons returned as having died aged one hundred years and over during the year 1890.*

Name of [illegible]	Sex.	Color.	Married, single or widowed.	Birth place.	Age. Year.	Age. Month.	Age. Day.	Occupation.	Place of death. Town.	Place of death. County.	Date of death. 1890. Month.	Date of death. 1890. Day.	Cause of death.
[illegible]	Male.	White	Married	New York	103	..	4	Farmer	Plymouth	Wayne	Jan.	17	Old age.
William [illegible]	Male	White	Widower	New York	103	..	16	Farmer	Johnston	Barry	Aug.	27	Lung disease
[illegible]	Female	White	Widow	Ohio	102	..	20	Housekeep'r	Baltimore	Barry	Feb.	10	Neuralgia of Stomach
[illegible]	Male	White	Married	Canada	100	5	..	None	Muskegon	Muskegon	May	6	Old age.
[illegible]	Male	Black	Widower	N. Carolina	100		..	Chim'y sw'p	Detroit	Wayne	Dec.	18	Consumpt'n
Sally [illegible]	Female	White	Widow	Unknown	101	11	15	None	Coldwater	Branch	Dec.	29	Old age.
Mrs. [illegible]	Female	White	Widow	Unknown	100	..	..	None	Niles	Berrien	May	14	Old age.
Edward [illegible]	Male	White	Widower	New Jersey	100	..		Farmer	Marcellus	Cass	April	30	Old age.
[illegible]	Male	Indian	Widower	New York.	107	..	..	Farmer	Custer	Mason	June	10	Old age.
Dorothy [illegible]	Female	White	Married	Unknown	100	4	9	None	Chester	Eaton	April	9	La grippe.

The townships from which no return of deaths were received for the year 1890 are given in Table 58. There were 29 townships and all of Iron county. Of these, Iron county and four townships were not organized at the time of the last census. The other townships had a population of 11,861 at the last enumeration. This number is deducted from the population in making the rates for the tables concerning deaths.

TABLE 60.—*Counties and townships in which it was reported that no deaths occurred in 1890.*

Counties.	Townships—No deaths in 1890.	Population.		
		Total.	Males.	Females.
Totals		2,430	1,865	565
Alpena	Sanborn*			
Arenac	Turner*			
	Adams*			
Benzie	Lake	65	38	27
Gladwin	Butman	180	122	58
	Sherman*			
	Clement	54	30	24
Missaukee	Forest	141	74	67
	West Branch	200	140	60
Ontonagon	Carp Lake	1,117	1,069	48
	Bohemia	272	171	101
Oscoda	Big Creek	143	82	61
	Elmer	77	43	34
	Mt. Pindus	181	96	85

* Organized since census was taken.

Table 60 shows the townships that reported no deaths occurring in 1890. Four of these townships were organized since the census of 1884. The others contained a population of 2,430.

TABLE 61.—*Exhibiting for the state and counties, by sex, the number of deaths returned in each month of the year 1890, and the number of deaths of each period of age.*

State and counties.	Sex.	Year, 1890.	Months, 1890.													Ages in periods of years, 1890.																	
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
State	Totals	21,642	1745	1599	1776	1807	1704	1633	1849	2032	1892	1808	1739	2027	31	7849	1096	621	782	907	918	812	813	683	707	672	701	925	948	942	856	1108	303
	Males	11,801	961	871	920	995	904	901	1040	1152	993	1007	905	1139	13	4286	575	313	388	445	469	410	427	374	417	374	414	541	540	548	480	637	163
	Females	9,771	780	726	850	807	793	729	803	873	887	800	824	882	17	3498	521	308	394	462	449	402	386	309	290	298	287	384	408	394	376	471	134
	Unknown	70	4	2	6	5	7	3	6	7	12	1	10	6	1	65	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5
Alcona	Totals	15	....	1	....	2	1	1	3	3	....	1	1	2	..	8	1	....	1	2	....	1	....	1	....	....	1	....	....	....	....	....	....
	Males	12	....	1	....	1	1	1	2	3	....	1	1	1	..	5	1	....	1	2	....	1	....	1	....	....	1	....	....	....	....	....	....
	Females	2	....	....	....	....	....	....	1	....	....	....	....	1	..	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Unknown	1	....	....	....	1	....	....	....	....	....	....	....	....	..	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Alger	Totals	8	....	....	....	....	....	2	1	....	1	3	1	....	..	3	1	1	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	1
	Males	3	....	....	....	....	....	1	....	....	....	1	1	....	..	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
	Females	5	....	....	....	....	....	1	1	....	1	2	....	....	..	2	1	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Allegan	Totals	299	17	23	33	25	23	21	15	29	23	29	24	37	..	68	16	6	9	9	11	14	16	8	11	10	12	18	22	19	21	23	6
	Males	156	12	9	16	9	11	13	9	16	10	18	11	22	..	35	5	4	5	6	6	4	7	5	4	6	5	11	10	14	10	16	3
	Females	140	5	14	17	14	12	8	6	13	13	11	12	15	..	30	11	2	4	3	5	10	9	3	7	4	7	7	12	5	11	7	3
	Unknown	3	....	....	....	2	....	....	....	....	....	....	1	....	..	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Alpena	Totals	114	7	13	9	5	8	6	11	8	11	13	15	8	..	50	5	1	4	9	3	7	4	5	6	5	1	1	1	5	3	3	1
	Males	57	3	6	3	5	2	2	6	6	3	10	7	4	..	27	3	....	....	2	....	4	3	3	4	3	....	....	....	4	1	2	....
	Females	57	4	7	6	....	6	4	5	2	8	3	8	4	..	23	2	1	4	6	3	3	1	2	2	2	1	1	1	1	2	1	1

Antrim	Totals	58	4	5	3	6	7	5	7	6	6	2	4	3	34	1		3	3	1	3	1		3		2	3		1	2	1	1
	Males	30	1	2		2	4	2	6	5	3	2	1	2	21				1	1	3			1			2			1		
	Females	27	3	3	3	4	3	3		1	3		3	1	12	1		3	2			1		2		2			1	1	1	1
	Unknown	1							1						1																	
Arenac	Totals	41	3	5		6	6	4	4	4	2	4	1	2	15	2	1	2	4	4	1		2	1				3	2	1	3	
	Males	22	3	3		4	2	4	2	2	1			1	9	2	1	2	1	1				1				3	1		1	
	Females	19		2		2	4		2	2	1	4	1	1	6				3	3	1		2					1	1	2		
Baraga	Totals	43	5	2	1		2	4	7	7	6	4	3	2	12			4	2	5	4	1	2	1	1	2	1	3			2	3
	Males	22	4	1	1			3	4	4	3	1	1		7				1	3	2		1			1	1	2			1	3
	Females	21	1	1			2	1	3	3	3	3	2	2	5			4	1	2	2	1	1	1	1	1		1			1	
Barry	Totals	158	16	16	17	14	12	20	8	14	11	13	12	5	39	10	5	3	8	7	6	8	5	3	5	4	8	8	12	12	14	1
	Males	74	8	7	7	6	3	12	3	7	8	6	5	2	23	2	3	1	3	1	2	2	3	2		1	2	4	7	9	9	
	Females	84	8	9	10	8	9	8	5	7	3	7	7	3	16	8	2	2	5	6	4	6	2	1	5	3	6	4	5	3	5	1
Bay	Totals	493	33	37	33	46	35	38	52	54	35	34	36	60	241	17	10	37	31	32	15	7	5	11	10	15	13	12	8	12	17	
	Males	279	26	21	20	27	23	14	33	29	16	13	19	38	137	9	5	18	17	16	11	3	3	8	5	8	10	9	3	10	7	
	Females	213	7	16	12	19	12	24	19	25	19	21	17	22	103	8	5	19	14	16	4	4	2	3	5	7	3	3	5	2	10	
	Unknown	1			1										1																	
Benzie	Totals	59	6	5	2	3	4	6	4	3	7	9	3	7	21			3		3	3	8	1	1	1	1	6	3	3	3	2	
	Males	24	1	1	1	3	1	3	1	2	4	4		3	10			1		1		1		1	1		3	1	1	3	1	
	Females	35	5	4	1		3	3	3	1	3	5	3	4	11			2		2	3	7	1			1	3	2	2		1	
Berrien	Totals	343	19	38	28	21	29	31	34	33	28	24	27	31	91	21	6	10	19	12	15	17	8	7	11	14	32	12	14	20	26	8
	Males	183	9	17	17	13	14	15	17	19	15	15	17	15	56	11	3	2	9	3	6	6	4	2	6	10	17	8	8	12	15	5
	Females	159	10	21	11	8	15	15	17	14	13	9	10	16	34	10	3	8	10	9	9	11	4	5	5	4	15	4	6	8	11	3
	Unknown	1						1							1																	
Branch	Totals	284	17	14	29	28	22	32	19	33	23	22	16	29	43	8	10	11	10	10	12	12	10	8	10	20	24	22	25	16	30	3
	Males	152	11	8	12	20	9	17	8	20	12	10	9	16	27	5	6	9	4	1	6	4	2	7	7	11	12	11	15	7	18	
	Females	132	6	6	17	8	13	15	11	13	11	12	7	13	16	3	4	2	6	9	6	8	8	1	3	9	12	11	10	9	12	3

TABLE 61.—*Exhibiting for the state and counties, by sex, the number of deaths returned in each month of the year 1890, and the number of deaths of each period of age.*

State and counties.	Sex.	Year, 1890.	Months, 1890.													Ages in periods of years, 1890.																	
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
State	Totals	21,642	1745	1599	1776	1807	1704	1633	1849	2032	1892	1808	1739	2027	31	7849	1098	621	782	907	918	812	813	683	707	672	701	925	948	942	856	1108	302
	Males	11,801	961	871	920	995	904	901	1040	1152	993	1007	905	1139	13	4286	575	313	388	445	469	410	427	374	417	374	414	541	540	548	480	637	163
	Females	9,771	780	726	850	807	793	729	803	873	887	800	824	882	17	3498	521	308	394	462	449	402	386	309	290	298	287	384	408	394	376	471	134
	Unknown	70	4	2	6	5	7	3	6	7	12	1	10	6	1	65	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5
Alcona	Totals	15	....	1	....	2	1	1	3	3	....	1	1	2	..	8	1	....	1	2	....	1	....	1	....	....	1	....	....	....	....	....	....
	Males	12	....	1	....	1	1	1	2	3	....	1	1	1	..	5	1	....	1	2	....	1	....	1	....	....	1	....	....	....	....	....	....
	Females	2	....	....	....	....	....	....	1	....	....	....	....	1	..	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Unknown	1	....	....	....	1	....	....	....	....	....	....	....	....	..	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Alger	Totals	8	....	....	....	....	....	2	1	....	1	3	1	....	..	3	1	1	....	1	....	....	....	1	....	....	....	....	....	....	....	....	1
	Males	3	....	....	....	....	....	1	....	....	....	1	1	....	..	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
	Females	5	....	....	....	....	....	1	1	....	1	2	....	....	..	2	1	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....
Allegan	Totals	299	17	23	33	25	23	21	15	29	23	29	24	37	..	68	16	6	9	9	11	14	16	8	11	10	12	18	22	19	21	23	6
	Males	156	12	9	16	9	11	13	9	16	10	18	11	22	..	35	5	4	5	6	6	4	7	5	4	6	5	11	10	14	10	16	3
	Females	140	5	14	17	14	12	8	6	13	13	11	12	15	..	30	11	2	4	3	5	10	9	3	7	4	7	7	12	5	11	7	3
	Unknown	3	....	....	....	2	....	....	....	....	....	....	1	....	..	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Alpena	Totals	114	7	13	9	5	8	6	11	8	11	13	15	8	..	50	5	1	4	9	3	7	4	5	6	5	1	1	1	5	3	3	1
	Males	57	3	6	3	5	2	2	6	6	3	10	7	4	..	27	3	....	....	3	....	4	3	3	4	3	....	....	....	4	1	2	....
	Females	57	4	7	6	....	6	4	5	2	8	3	8	4	..	23	2	1	4	6	3	3	1	2	2	2	1	1	1	1	2	1	1

Antrim	Totals	58	4	5	3	6	7	5	7	6	6	2	4	3	..	34	1	....	3	3	1	3	1	....	3	....	2	2	....	1	2	1	1
	Males	30	1	2	....	2	4	2	6	5	3	2	1	2	..	21	....	....	....	1	1	3	....	....	1	....	....	2	....	....	1	....	....
	Females	27	3	3	3	4	3	3	....	1	3	....	3	1	..	12	1	....	3	2	....	....	1	....	2	....	2	....	....	1	1	1	1
	Unknown	1	....	....	....	....	....	....	1	....	....	....	....	....	..	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Arenac	Totals	41	3	5	....	6	6	4	4	4	2	4	1	2	..	15	2	1	2	4	4	1	....	2	1	....	....	....	3	2	1	3	....
	Males	22	3	3	....	4	2	4	2	2	1	....	....	1	..	9	2	1	2	1	1	....	....	....	1	....	....	....	3	1	....	1	....
	Females	19	....	2	....	2	4	....	2	2	1	4	1	1	..	6	....	....	....	3	3	1	....	2	....	....	....	....	....	1	1	2	....
Baraga	Totals	43	5	2	1	....	2	4	7	7	6	4	3	2	..	12	....	....	4	2	5	4	1	2	1	1	2	1	3	....	....	2	3
	Males	22	4	1	1	....	....	3	4	4	3	1	1	....	..	7	....	....	....	1	3	2	....	1	....	....	1	1	2	....	....	1	3
	Females	21	1	1	....	....	2	1	3	3	3	3	2	2	..	5	....	....	4	1	2	2	1	1	1	1	1	....	1	....	....	1	....
Barry	Totals	158	16	16	17	14	12	20	8	14	11	13	12	5	..	39	10	5	3	8	7	6	8	5	3	5	4	8	8	12	12	14	1
	Males	74	8	7	7	6	3	12	3	7	8	6	5	2	..	23	2	3	1	3	1	2	2	3	2	....	1	2	4	7	9	9	....
	Females	84	8	9	10	8	9	8	5	7	3	7	7	3	..	16	8	2	2	5	6	4	6	2	1	5	3	6	4	5	3	5	1
Bay	Totals	493	33	37	33	46	35	38	52	54	35	34	36	60	..	241	17	10	37	31	32	15	7	5	11	10	15	13	12	8	12	17	....
	Males	279	26	21	20	27	23	14	33	29	16	13	19	38	..	137	9	5	18	17	16	11	3	3	8	5	8	10	9	3	10	7	....
	Females	213	7	16	12	19	12	24	19	25	19	21	17	22	..	103	8	5	19	14	16	4	4	2	3	5	7	3	3	5	2	10	....
	Unknown	1	....	....	1	....	....	....	....	....	....	....	....	....	..	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Benzie	Totals	59	6	5	2	3	4	6	4	3	7	9	3	7	..	21	....	....	3	....	3	3	8	1	1	1	1	6	3	3	3	2	....
	Males	24	1	1	1	3	1	3	1	2	4	4	....	3	..	10	....	....	1	....	1	....	1	....	1	1	....	3	1	1	3	1	....
	Females	35	5	4	1	....	3	3	3	1	3	5	3	4	..	11	....	....	2	....	2	3	7	1	....	....	1	3	2	2	....	1	....
Berrien	Totals	343	19	38	28	21	29	31	34	33	28	24	27	31	..	91	21	6	10	19	12	15	17	8	7	11	14	32	12	14	20	26	8
	Males	183	9	17	17	13	14	15	17	19	15	15	17	15	..	56	11	3	2	9	3	6	6	4	2	6	10	17	8	8	12	15	5
	Females	159	10	21	11	8	15	15	17	14	13	9	10	16	..	34	10	3	8	10	9	9	11	4	5	5	4	15	4	6	8	11	3
	Unknown	1	....	....	....	....	....	1	....	....	....	....	....	....	..	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Branch	Totals	284	17	14	29	28	22	32	19	33	23	22	16	29	..	43	8	10	11	10	10	12	12	10	8	10	20	24	22	25	16	30	3
	Males	152	11	8	12	20	9	17	8	20	12	10	9	16	..	27	5	6	9	4	1	6	4	2	7	7	11	12	11	15	7	18	....
	Females	132	6	6	17	8	13	15	11	13	11	12	7	13	..	16	3	4	2	6	9	6	8	8	1	3	9	12	11	10	9	12	3

TABLE 61.—CONTINUED.—*Deaths by counties, by sex, by months, and by age, 1890.*

Counties.	Sex.	Year, 1890.	Months, 1890.													Ages in periods of years, 1890.																	
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Calhoun	Totals	343	27	16	26	26	35	27	28	26	30	31	32	36	3	79	5	6	13	11	16	23	16	16	14	12	12	15	18	35	17	33	2
	Males	173	11	13	14	14	14	14	15	12	17	17	9	23	..	47	3	6	4	8	7	9	6	9	9	4	5	9	9	18	9	11	...
	Females	168	15	3	12	12	21	13	13	14	12	14	23	13	3	30	2	...	9	3	9	14	10	7	5	8	7	6	9	17	8	22	2
	Unknown	2	1	...	...	...	...	...	...	...	1	...	...	...	..	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cass	Totals	170	8	13	14	17	13	17	15	19	8	11	20	15	..	44	6	2	9	6	8	3	4	9	8	5	5	8	14	10	7	18	3
	Males	93	4	9	11	11	4	7	8	12	3	9	5	10	..	21	2	1	3	1	6	3	2	6	4	4	3	4	10	5	5	11	2
	Females	69	3	4	2	6	9	10	6	6	5	2	12	4	..	15	4	2	6	5	2	...	2	3	4	1	2	4	4	5	2	7	1
	Unknown	8	1	...	1	...	...	...	1	1	...	...	3	1	..	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Charlevoix	Totals	77	5	4	7	10	9	13	3	5	6	8	5	2	..	38	5	6	2	1	4	3	1	4	3	...	...	2	5	...	3	...	...
	Males	40	3	2	3	4	6	7	1	2	3	6	3	...	..	20	3	1	2	1	1	2	1	3	2	...	...	...	3	...	1	...	...
	Females	37	2	2	4	6	3	6	2	3	3	2	2	2	..	18	2	5	...	...	3	1	...	1	1	...	...	2	2	...	2	...	...
Cheboygan	Totals	97	6	12	8	7	8	7	3	17	10	7	6	6	..	48	6	5	7	6	1	1	2	1	4	5	2	1	1	2	3	1	1
	Males	54	3	3	5	3	5	5	3	9	6	4	3	5	..	27	2	2	5	4	1	...	...	1	2	4	...	...	1	1	2	1	1
	Females	43	3	9	3	4	3	2	...	8	4	3	3	1	..	21	4	3	2	2	...	1	2	...	2	1	2	1	...	1	1	...	...
Chippewa	Totals	67	2	4	6	7	7	3	5	6	9	6	4	8	..	27	2	5	1	3	2	...	4	4	1	2	3	3	1	3	2	...	4
	Males	42	...	1	4	5	4	3	3	5	3	5	2	7	..	16	2	1	...	3	1	...	2	2	1	2	3	2	1	2	...	...	4
	Females	24	2	3	2	2	3	...	2	1	6	...	2	1	..	10	...	4	1	...	1	...	2	2	...	...	...	1	...	1	2	...	...
	Unknown	1	...	...	...	...	...	...	...	...	...	1	...	...	..	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Clare	Totals	47	7	5	1	4	7	3	4	3	4	3	2	4	..	15	4	...	3	3	1	1	4	1	2	1	2	2	3	...	1	2	2
	Males	23	5	3	...	1	3	3	2	...	2	2	1	1	..	8	2	...	1	3	1	...	1	...	...	...	1	1	1	...	1	1	2
	Females	24	2	2	1	3	4	...	2	3	2	1	1	3	..	7	2	...	2	...	...	1	3	1	2	1	1	1	2	...	...	1	...

Clinton	Totals	234	13	14	23	18	20	21	16	24	25	18	18	24	..	67	5	6	9	16	10	12	6	7	8	12	6	17	9	14	19	10	1
	Males	127	5	7	10	9	14	14	8	14	13	10	8	15	..	36	3	3	3	10	4	7	4	2	3	6	6	9	6	9	11	4	1
	Females	106	8	7	13	9	6	7	8	9	12	8	10	9	..	30	2	3	6	6	6	5	2	5	5	6	....	8	3	5	8	6	...
	Unknown	1	....	....	....	....	....	....	....	1	....	....	....	....	..	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
Crawford	Totals	16	1	1	1	1	1	....	1	3	3	1	....	3	..	9	1	....	1	....	....	....	....	....	....	....	....	....	1	1	....	3	...
	Males	12	1	1	....	1	1	....	1	2	2	1	....	2	..	8	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	2	...
	Females	4	....	....	1	....	....	....	....	1	1	....	....	1	..	1	....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	1	...
Delta	Totals	151	17	13	9	7	14	8	9	21	15	8	16	14	..	72	15	4	8	4	8	6	4	4	1	3	5	4	3	2	....	2	6
	Males	80	9	7	5	4	6	3	6	8	10	3	8	11	..	36	8	1	3	....	4	3	3	3	1	3	4	2	1	2	....	1	5
	Females	71	8	6	4	3	8	5	3	13	5	5	8	3	..	36	7	3	5	4	4	3	1	1	....	....	1	2	2	....	....	1	1
Eaton	Totals	287	25	18	25	24	21	26	26	22	24	28	20	27	1	47	....	6	14	13	11	8	7	11	10	11	19	16	18	30	17	37	12
	Males	130	9	9	11	12	11	12	9	9	15	13	8	12	..	27	....	2	5	3	5	2	2	3	5	5	8	6	7	18	7	19	6
	Females	155	16	9	14	12	10	14	15	13	9	15	12	15	1	19	....	4	9	10	6	6	5	8	5	6	11	10	11	12	10	18	5
	Unknown	2	....	....	....	....	....	....	2	....	....	....	....	....	..	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
Emmet	Totals	68	3	5	4	4	10	2	4	5	7	9	5	10	..	27	3	4	4	1	3	2	3	3	2	2	2	1	3	2	3	3	...
	Males	46	2	3	3	3	6	1	2	3	5	6	5	7	..	17	3	2	3	1	2	1	3	1	2	2	1	1	2	2	3	....	...
	Females	22	1	2	1	1	4	1	2	2	2	3	....	3	..	10	....	2	1	....	1	1	....	2	....	....	1	....	1	....	....	3	...
Genesee	Totals	301	24	27	25	22	30	23	17	22	37	18	24	32	..	57	5	9	12	13	13	11	9	15	18	18	15	13	17	23	22	31	...
	Males	160	15	11	13	12	13	8	10	14	26	7	12	19	..	34	2	6	7	3	7	6	4	10	5	7	8	5	11	12	12	21	...
	Females	141	9	16	12	10	17	15	7	8	11	11	12	13	..	23	3	3	5	10	6	5	5	5	13	11	7	8	6	11	10	10	...
Gladwin	Totals	3	....	....	....	....	....	1	....	....	1	....	1	....	..	1	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	...
	Males	1	....	....	....	....	....	1	....	....	....	....	....	....	..	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	...
	Females	2	....	....	....	....	....	....	....	....	1	....	1	....	..	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	...
Gogebic	Totals	85	10	8	4	5	6	8	6	3	11	4	7	13	..	43	4	....	....	6	7	4	4	6	4	2	1	1	....	1	....	....	...
	Males	46	7	2	2	1	2	4	4	1	6	4	4	9	..	20	1	....	....	4	5	3	1	5	2	2	1	1	....	....	....	....	...
	Females	39	3	6	2	4	4	4	2	2	5	....	3	4	..	23	3	....	....	2	2	1	3	1	1	....	....	....	....	1	....	....	...

TABLE 61.—CONTINUED.—*Deaths by Counties, by Sex, by Months, and by Age, 1890.*

Counties.	Sex.	Year 1890.	Months, 1890.													Ages in periods of years, 1890.																	
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
G'd Traverse	Totals	85	5	7	7	10	7	6	2	3	11	12	10	4	1	17	...	...	1	6	5	3	9	6	8	5	6	4	5	1	...	6	3
	Males	48	2	5	1	5	4	3	2	2	5	9	6	3	1	11	...	...	...	4	3	2	4	4	5	3	3	1	3	1	...	4	...
	Females	37	3	2	6	5	3	3	...	1	6	3	4	1	...	6	...	...	1	2	2	1	5	2	3	2	3	3	2	...	...	2	3
Gratiot	Totals	159	7	12	12	16	11	16	10	18	10	13	19	15	...	51	5	3	10	7	8	12	4	2	3	4	9	8	9	7	4	13	...
	Males	84	2	7	5	9	4	13	6	10	1	8	7	12	...	22	4	2	7	2	4	2	1	1	2	3	3	6	6	5	4	10	...
	Females	74	5	5	7	7	7	3	4	8	8	5	12	3	...	28	1	1	3	5	4	10	3	1	1	1	6	2	3	2	...	3	...
	Unknown	1	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hillsdale	Totals	280	23	12	18	24	26	22	20	26	27	23	28	31	...	44	5	5	7	13	3	6	8	5	6	7	15	20	27	21	26	29	33
	Males	151	14	9	10	12	11	10	11	14	12	14	17	17	...	28	2	3	5	7	3	3	6	...	2	1	8	10	13	15	17	17	11
	Females	128	9	3	8	12	15	12	9	12	15	9	11	13	...	15	3	2	2	6	...	3	2	5	4	6	7	10	14	6	9	12	22
	Unknown	1	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Houghton	Totals	326	41	14	22	34	35	18	16	31	31	27	27	29	1	160	18	13	22	12	12	6	12	12	5	12	12	9	9	3	2	4	3
	Males	188	22	7	15	20	21	11	8	10	18	18	17	21	...	88	10	5	12	7	10	4	7	8	4	6	8	7	6	2	1	1	2
	Females	136	19	7	7	14	14	7	7	21	12	9	10	8	1	70	8	8	10	5	2	2	5	4	1	6	4	2	3	1	1	3	1
	Unknown	2	...	...	...	...	...	...	1	...	1	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Huron	Totals	227	13	24	15	13	24	19	13	15	19	20	26	25	1	96	18	2	9	7	11	7	9	3	6	6	5	8	11	7	12	9	1
	Males	130	5	13	9	6	13	13	6	9	12	10	18	15	1	52	11	...	6	4	6	5	1	1	5	4	5	6	7	3	9	5	...
	Females	97	8	11	6	7	11	6	7	6	7	10	8	10	...	44	7	2	3	3	5	2	8	2	1	2	...	2	4	4	3	4	1
Ingham	Totals	373	37	25	38	29	30	32	28	30	23	29	35	37	...	89	16	11	11	18	15	15	17	19	18	21	15	26	15	18	17	27	5
	Males	181	15	15	20	9	19	23	12	10	14	12	16	16	...	47	7	3	3	4	8	4	10	8	6	14	11	14	7	9	10	12	4
	Females	192	22	10	18	20	11	9	16	20	9	17	19	21	...	42	9	8	8	14	7	11	7	11	12	7	4	12	8	9	7	15	1

Ionia	Totals	243	14	17	19	13	25	8	31	28	16	23	17	32	..	56	10	7	16	4	8	9		5	4	7	13	15	14	18	19	28	5
	Males	116	6	8	8	9	10	3	15	11	8	12	8	18	..	26	5	2	6	2	3	1	....	2	3	3	8	11	9	10	8	15	2
	Females	126	8	9	11	4	15	5	16	16	8	11	9	14	..	29	5	5	10	2	5	8	5	3	1	4	5	4	5	8	11	13	3
	Unknown	1	....	....	....	....	....	....	....	1	....	....	....	....	..	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
Iosco	Totals	129	13	11	9	8	8	4	13	14	14	14	13	14	8	79	5	4	1	6	4	6	1	1	2	4	3	5	4	2	....	....	2
	Males	83	7	8	6	3	8	4	6	8	10	9	10	4	..	46	3	4	1	6	3	5	....	....	2	4	2	3	2	....	....	....	2
	Females	44	5	3	3	5	....	....	7	6	4	4	3	4	..	31	2	....	....	....	1	1	1	1	....	....	1	2	2	2	....	....	....
	Unknown	2	1	....	....	....	....	....	....	....	....	....	1	....	..	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
n	Totals	....	....	....	....	....	....	....	....	....	....	....	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Males	....	....	....	....	....	....	....	....	....	....	....	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females	....	....	....	....	....	....	....	....	....	....	....	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
sabella	Totals	147	18	8	10	10	11	15	13	11	8	14	15	14	..	57	7	6	10	9	4	4	5	5	1	2	9	2	5	6	6	8	1
	Males	75	11	3	7	5	6	11	6	4	2	6	7	7	..	21	3	4	8	3	3	2	3	3	1	2	6	1	3	2	4	6	..
	Females	72	7	5	3	5	5	4	7	7	6	8	8	7	..	36	4	2	2	6	1	2	2	2	....	....	3	1	2	4	2	2	1
Jackson	Totals	467	40	36	29	28	43	40	39	51	45	42	36	38	..	134	33	9	13	19	11	8	19	11	21	27	20	21	26	25	25	37	8
	Males	251	22	22	14	14	22	20	23	27	22	23	16	26	..	69	20	5	8	7	8	3	13	7	13	9	7	12	16	14	13	22	5
	Females	216	18	14	15	14	21	20	16	24	23	19	20	12	..	65	13	4	5	12	3	5	6	4	8	18	13	9	10	11	12	15	3
Kalamazoo	Totals	413	27	27	35	29	28	24	30	58	38	46	31	39	1	93	15	6	17	12	19	14	10	18	20	9	18	27	27	35	20	41	12
	Males	207	13	12	18	22	15	10	15	24	19	21	12	25	1	46	8	5	5	7	8	10	6	11	9	5	4	10	16	23	6	23	5
	Females	206	14	15	17	7	13	14	15	34	19	25	19	14	..	47	7	1	12	5	11	4	4	7	11	4	14	17	11	12	14	18	7
Kalkaska	Totals	28	1	1	3	2	6	3	3	3	3	....	2	....	..	17	....	2	1	3	....	....	....	....	2	1	....	....	1	....	1	....	....
	Males	8	....	....	1	....	....	....	2	1	2	....	2	....	..	5	....	1	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....
	Females	20	1	1	2	3	6	3	1	2	1	....	....	....	..	12	....	1	....	3	....	....	....	....	2	1	....	....	1	....	....	....	....
Kent	Totals	1314	114	102	105	116	83	81	107	142	116	124	105	114	5	457	92	38	35	65	54	47	50	38	48	42	43	66	68	51	56	56	8
	Males	729	63	54	51	70	48	37	59	86	62	78	55	63	3	258	47	21	17	25	24	25	27	21	30	27	28	41	34	29	31	38	6
	Females	577	51	48	52	45	35	43	48	56	50	46	50	51	2	191	45	17	18	40	30	22	23	17	18	15	15	25	34	22	25	18	3
	Unknown	8	....	....	2	1	....	1	....	....	4	....	....	....	..	8	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TABLE 61.—CONTINUED.—*Deaths by counties, by sex, by months, and by ages, 1890.*

Counties.	Sex.	Year, 1890.	Months, 1890.													Ages in periods of years, 1890.																		
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Keweenaw	Totals	45	5	4	3	2	3	2	5	5	5	3	2	6	..	23	2	....	2	....	2	2	7	....	....	2	....	1	2	....	1	....	1
	Males	27	5	2	1	1	3	1	3	2	3	2	1	3	..	12	1	....	2	....	2	2	4	....	....	1	....	1	1	....	....	....	1
	Females	18	....	2	2	1	....	1	2	3	2	1	1	3	..	11	1	....	....	....	....	....	3	....	....	1	....	....	1	....	1	....	....
Lake	Totals	16	....	1	2	2	3	....	2	2	2	....	....	2	..	8	....	....	1	1	....	1	....	1	....	....	....	....	....	2	....	1	1
	Males	8	....	....	....	....	2	....	1	1	2	....	....	2	..	5	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	1
	Females	8	....	1	2	2	1	....	1	1	....	....	....	....	..	3	....	....	1	....	....	1	....	1	....	....	....	....	....	2	....	....	....
Lapeer	Totals	201	16	20	11	14	14	17	21	17	14	21	17	19	..	51	8	9	8	11	4	9	7	7	10	12	8	5	11	13	13	13	2
	Males	102	4	11	5	7	6	8	15	10	7	11	8	10	..	28	4	5	3	5	1	3	5	3	4	7	6	2	3	8	6	8	1
	Females	99	12	9	6	7	8	9	6	7	7	10	9	9	..	23	4	4	5	6	3	6	2	4	6	5	2	3	8	5	7	5	1
Leelsnaw	Totals	68	4	7	5	5	9	4	8	9	7	5	2	3	..	34	4	1	2	4	....	2	4	1	2	2	1	2	3	2	1	3	..
	Males	38	2	3	2	3	5	3	5	6	2	4	1	2	..	19	2	1	....	2	....	1	3	1	....	2	1	1	3	1	....	1	..
	Females	30	2	4	3	2	4	1	3	3	5	1	1	1	..	15	2	....	2	2	....	1	1	....	2	....	....	1	....	1	1	2	..
Lenawee	Totals	447	40	37	38	37	27	29	36	35	38	36	47	45	2	69	7	13	12	9	16	19	15	13	16	18	26	37	37	37	42	54	7
	Males	230	13	19	18	23	12	18	23	22	16	14	23	28	1	35	5	8	2	7	6	7	5	5	10	9	12	22	19	20	30	33	5
	Females	215	27	18	20	14	15	11	13	13	22	22	23	16	1	33	2	5	10	2	10	12	10	8	6	9	14	15	18	17	22	21	1
	Unknown	2	....	....	....	....	....	....	....	....	....	....	1	1	..	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
Livingston	Totals	130	13	6	9	10	10	13	10	8	13	13	9	16	..	22	4	2	2	4	4	5	3	10	5	6	9	5	12	10	13	13	1
	Males	65	6	3	5	6	3	5	4	7	4	8	6	8	..	11	....	1	2	....	....	2	....	2	2	1	6	4	9	6	11	7	1
	Females	65	7	3	4	4	7	8	6	1	9	5	3	8	..	11	4	1	....	4	4	3	3	8	3	5	3	1	3	4	2	6	..
Luce	Totals	2	....	....	....	1	....	....	....	....	1	....	....	....	..	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	..
	Males	2	....	....	....	1	....	....	....	....	1	....	....	....	..	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	..
	Females	....	....	....	....	....	....	....	....	....	....	....	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..

Mackinac	Totals	18	...	1	...	1	1	2	2	2	5	1	...	2	1	8	2	...	...	...	1	1	1	...	...	1	...	...	...	1	1	...	2
	Males	7	...	...	...	1	...	1	2	1	1	...	...	1	..	1	1	...	...	...	1	...	1	...	...	1	...	...	...	...	1	...	1
	Females	10	...	1	...	...	1	1	...	1	4	1	...	1	..	7	1	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...
	Unknown	1	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Macomb	Totals	324	25	21	33	35	22	25	24	25	33	27	21	33	..	78	11	10	19	14	13	15	5	12	14	12	16	16	22	22	19	26	...
	Males	168	11	9	9	18	14	14	13	11	21	18	9	21	..	48	5	6	7	5	7	6	1	8	3	6	10	8	10	12	10	16	...
	Females	156	14	12	24	17	8	11	11	14	12	9	12	12	..	30	6	4	12	9	6	9	4	4	11	6	6	8	12	10	9	10	...
Manistee	Totals	241	23	12	19	16	22	22	24	30	12	19	16	26	..	135	10	12	3	8	6	9	8	4	6	6	6	4	4	8	3	5	4
	Males	129	15	10	5	9	9	14	11	16	5	11	11	13	..	77	4	4	2	2	3	5	2	3	5	6	3	...	3	4	1	3	2
	Females	106	8	1	14	6	13	8	13	12	6	8	5	12	..	52	6	8	1	6	3	4	6	1	1	...	3	4	1	4	2	2	2
	Unknown	6	...	1	...	1	...	...	...	2	1	...	...	1	..	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Manitou	Totals	2	1	...	...	...	...	...	...	...	...	1	...	...	..	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...
	Males	1	1	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
	Females	1	...	...	...	...	...	...	...	...	...	1	...	...	..	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Marquette	Totals	488	40	31	30	40	27	34	44	78	40	45	35	44	..	254	35	9	22	23	31	22	17	13	10	7	7	13	6	4	5	1	9
	Males	331	32	20	16	30	15	23	31	53	26	32	22	31	..	155	20	6	18	17	26	20	15	11	8	7	5	9	3	3	...	1	7
	Females	157	8	11	14	10	12	11	13	25	14	13	13	13	..	99	15	3	4	6	5	2	2	2	2	...	2	4	3	1	5	...	2
Mason	Totals	119	6	9	15	5	10	10	9	18	10	7	13	7	..	62	8	3	5	4	3	7	2	2	3	3	2	7	2	1	1	4	...
	Males	67	3	3	12	4	6	2	6	7	6	6	9	3	..	38	4	1	1	2	...	5	1	...	2	1	1	5	2	...	1	3	...
	Females	52	3	6	3	1	4	8	3	11	4	1	4	4	..	24	4	2	4	2	3	2	1	2	1	2	1	2	...	1	...	1	...
Mecosta	Totals	147	11	13	8	17	10	11	10	9	18	12	14	14	..	40	5	7	3	14	5	8	10	5	4	3	7	5	6	8	7	9	1
	Males	80	8	9	4	6	8	7	4	5	7	7	6	9	..	22	4	5	1	7	4	3	6	2	1	2	5	3	5	4	2	4	...
	Females	67	3	4	4	11	2	4	6	4	11	5	8	5	..	18	1	2	2	7	1	5	4	3	3	1	2	2	1	4	5	5	1
Menominee	Totals	312	19	24	12	20	32	22	28	30	38	27	32	28	..	172	26	8	16	14	13	7	4	9	9	1	3	2	6	...	3	2	17
	Males	186	14	19	8	14	17	15	12	17	20	18	16	16	..	98	8	2	10	13	10	7	3	8	5	1	2	1	2	...	1	1	14
	Females	121	5	5	4	6	14	7	16	12	16	9	15	12	..	69	18	6	6	1	3	...	1	1	4	...	1	1	4	...	2	1	3
	Unknown	5	...	...	...	...	1	...	...	1	2	...	1	...	..	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE 61.—CONTINUED.—*Deaths by counties, by sex, by months, and by age, 1890.*

Counties.	Sex.	Year, 1890.	Months, 1890.													Ages in periods of years, 1890.																	
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Midland	Totals	73	4	7	5	2	6	5	6	5	7	10	5	11	..	31	2	2	5	4	1	5	5	3	3	4	....	1	....	1	2	3	1
	Males	44	3	4	3	2	4	3	3	3	4	4	5	6	..	18	2	2	1	3	1	1	4	3	1	4	....	....	....	1	1	2	....
	Females	29	1	3	2	....	2	2	3	2	3	6	....	5	..	13	....	....	4	1	....	4	1	....	2	....	....	1	....	....	1	1	1
Missaukee	Totals	54	6	3	3	4	9	4	6	3	3	5	5	3	..	31	3	1	....	4	4	2	2	....	1	....	3	....	1	1	1	....	....
	Males	31	4	2	3	2	5	2	4	1	1	3	4	....	..	19	2	....	....	2	2	1	....	....	1	....	3	....	1	....	....	....	....
	Females	23	2	1	....	2	4	2	2	2	2	2	1	3	..	12	1	1	....	2	2	1	2	....	....	....	....	....	....	1	1	....	....
Monroe	Totals	274	15	28	25	29	17	18	16	18	23	25	28	32	..	81	8	9	7	15	9	12	11	7	9	7	9	16	14	22	13	25	....
	Males	131	5	10	14	16	6	12	10	9	11	12	13	13	..	45	4	7	2	9	....	4	5	2	4	3	2	9	6	10	9	10	....
	Females	141	10	17	11	13	10	6	6	9	12	13	15	19	..	34	4	2	5	6	9	8	6	5	5	4	7	7	8	12	4	15	....
	Unknown	2	....	1	....	....	1	....	....	....	....	....	....	....	..	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Montcalm	Totals	236	19	20	16	20	18	19	22	19	15	21	23	24	..	80	14	10	8	15	8	9	12	4	8	6	7	12	6	10	12	11	4
	Males	133	9	14	10	12	11	9	11	9	8	14	13	13	..	49	6	5	4	7	3	5	5	2	3	4	4	8	3	8	8	6	3
	Females	103	10	6	6	8	7	10	11	10	7	7	10	11	..	31	8	5	4	8	5	4	7	2	5	2	3	4	3	2	4	5	1
Montmorency	Totals	5	....	....	....	....	1	1	....	1	....	2	....	....	..	4	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....
	Males	3	....	....	....	....	....	1	....	1	....	1	....	....	..	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females	2	....	....	....	....	1	....	....	....	....	1	....	....	..	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....
Muskegon	Totals	436	44	23	24	18	22	33	29	65	49	44	27	57	1	221	28	14	9	14	12	17	19	9	12	11	14	17	9	6	13	10	1
	Males	230	24	18	16	7	10	13	18	40	28	17	8	30	1	116	12	10	5	7	2	8	9	7	5	7	8	15	6	2	7	3	1
	Females	204	20	5	8	11	12	19	11	25	21	27	18	27	..	103	16	4	4	7	10	9	10	2	7	4	6	2	3	4	6	7	....
	Unknown	2	....	....	....	....	....	1	....	....	....	....	1	....	..	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Newaygo	Totals	120	7	13	12	8	8	11	6	8	13	10	9	15	..	44	9	6	5	5	4	5	6	2	2	5	3	2	4	7	4	5	2
	Males	76	4	10	8	7	5	8	3	4	7	6	4	10	..	29	3	3	2	1	2	4	2	1	2	3	2	2	3	7	3	5	2
	Females	43	3	3	3	1	3	3	3	4	6	4	5	5	..	14	6	3	3	4	2	1	4	1	....	2	1	....	1	....	1	....	....
	Unknown	1	....	....	1	....	....	....	....	....	....	....	....	....	..	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Oakland	Totals	394	25	21	46	51	31	33	32	24	31	31	34	31	4	57	10	8	9	19	17	21	18	14	15	23	11	21	31	38	29	49	4
	Males	220	12	14	26	34	17	22	17	12	10	16	24	15	1	35	4	5	4	6	5	13	10	7	8	15	9	12	19	23	17	28	....
	Females	174	13	7	20	17	14	11	15	12	21	15	10	16	3	22	6	3	5	13	12	8	8	7	7	8	2	9	12	15	12	21	4
Oceana	Totals	101	11	6	10	14	8	13	4	9	5	8	5	6	2	30	8	7	2	5	2	3	5	....	....	6	2	8	7	5	5	6	....
	Males	60	6	6	5	8	5	6	2	8	4	5	3	1	1	15	4	4	1	4	1	1	3	....	....	4	1	5	6	4	2	5	....
	Females	41	5	....	5	6	3	7	2	1	1	3	2	5	1	15	4	3	1	1	1	2	2	....	....	2	1	3	1	1	3	1	....
Ogemaw	Totals	34	4	....	3	2	1	3	3	5	3	2	2	6	..	16	1	1	1	2	....	3	....	....	1	2	2	1	....	2	1	....	1
	Males	20	3	....	1	1	1	1	1	4	2	2	....	4	..	9	....	1	1	2	....	1	....	....	....	2	1	....	....	1	1	....	1
	Females	14	1	....	2	1	....	2	2	1	1	....	2	2	..	7	1	....	....	....	....	2	....	....	1	....	1	1	....	1	....	....	....
Ontonagon	Totals	27	4	5	2	4	2	1	1	3	....	2	1	2	..	5	....	....	1	2	1	....	....	2	4	2	....	5	2	....	....	3	....
	Males	22	4	5	2	4	1	....	1	1	....	1	1	2	..	3	....	....	1	2	1	....	....	2	4	1	....	5	2	....	....	1	....
	Females	5	....	....	....	....	1	1	....	2	....	1	....	....	..	2	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	2	....
Osceola	Totals	127	8	8	7	11	15	9	12	15	14	5	12	11	..	51	6	8	8	7	6	2	2	4	7	3	....	5	4	5	4	4	1
	Males	71	4	4	2	6	6	6	10	8	6	2	8	9	..	24	2	6	6	3	3	1	1	3	5	2	....	5	2	3	3	1	1
	Females	56	4	4	5	5	9	3	2	7	8	3	4	2	..	27	4	2	2	4	3	1	1	1	2	1	....	....	2	2	1	3	....
Oscoda	Totals	5	....	....	....	....	....	1	....	....	....	2	2	....	..	2	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	1
	Males	4	....	....	....	....	....	1	....	....	....	1	2	....	..	2	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1
	Females	1	....	....	....	....	....	....	....	....	....	1	....	....	..	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Otsego	Totals	32	....	1	1	1	3	4	4	3	2	1	5	7	..	20	2	....	....	1	1	1	1	....	1	....	1	2	....	1	....	....	1
	Males	13	....	....	....	....	....	3	1	2	1	1	4	1	..	9	....	....	....	....	1	....	....	....	....	....	1	2	....	....	....	....	....
	Females	19	....	1	1	1	3	1	3	1	1	....	1	6	..	11	2	....	....	1	....	1	1	....	1	....	....	....	....	1	....	....	1

TABLE 61.—CONCLUDED.—*Deaths by counties, by sex, by months, and by age, 1890.*

Counties.	Sex.	Year, 1890.	Months, 1890.													Ages in periods of years, 1890.																	
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Ottawa	Totals	330	24	20	36	23	29	27	30	30	38	21	26	25	1	109	26	18	7	14	18	11	11	8	9	9	8	7	17	22	16	17	3
	Males	182	13	15	17	6	18	17	18	17	29	12	11	9	..	53	12	10	3	7	8	7	6	7	5	3	6	3	10	16	11	13	2
	Females	146	11	5	18	17	11	10	11	13	9	9	15	16	1	55	14	8	4	7	10	4	5	1	4	6	2	4	7	6	5	4	...
	Unknown	2	...	...	1	...	...	...	1	...	...	...	...	...	..	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Presque Isle	Totals	27	1	3	2	1	2	2	1	2	2	...	4	7	..	12	2	3	1	...	...	...	1	...	2	1	1	1	...	1	1	1	...
	Males	15	...	2	1	1	1	...	1	1	1	...	3	4	..	7	2	1	...	...	...	...	1	...	1	...	1	1	...	...	...	1	...
	Females	12	1	1	1	...	1	2	...	1	1	...	1	3	..	5	...	2	1	...	...	...	...	...	1	1	...	...	...	1	1	...	...
Roscommon	Totals	10	1	3	...	1	...	1	1	...	...	1	1	1	..	3	...	1	...	...	2	...	...	1	1	1	...	...	...	1	...	...	...
	Males	7	1	2	...	1	...	1	...	...	...	1	...	1	..	2	...	1	...	...	2	...	...	...	1	1	...	...	...	...	...	...	...
	Females	3	...	1	...	...	...	...	1	...	...	...	1	...	..	1	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...
Saginaw	Totals	1,032	101	84	91	87	70	70	94	90	89	78	85	93	..	407	59	37	40	43	55	37	41	37	35	31	37	39	43	38	15	30	8
	Males	574	57	45	46	51	42	45	50	47	49	47	43	52	..	228	37	12	17	21	30	18	28	21	22	17	24	23	26	23	6	15	6
	Females	456	44	39	45	36	28	25	44	43	40	31	41	40	..	177	22	25	23	22	25	19	13	16	13	14	13	16	17	15	9	15	2
	Unknown	2	...	...	...	...	...	...	...	...	...	...	1	1	..	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sanilac	Totals	229	11	14	19	19	15	16	26	20	26	16	26	21	..	93	4	8	18	18	11	6	7	4	6	8	10	5	10	4	8	4	5
	Males	105	2	8	9	12	8	5	12	13	8	6	15	7	..	43	1	4	10	6	4	3	...	4	3	4	5	3	4	3	4	1	3
	Females	124	9	6	10	7	7	11	14	7	18	10	11	14	..	50	3	4	8	12	7	3	7	...	3	4	5	2	6	1	4	3	2
Schoolcraft	Totals	44	4	3	7	2	6	5	2	4	2	1	1	6	1	23	4	1	...	...	3	1	3	1	3	1	1	...	...	1	...	...	2
	Males	23	2	1	3	...	3	2	2	3	2	...	1	4	..	12	2	1	...	...	...	...	2	1	2	...	1	...	...	1	...	...	1
	Females	21	2	2	4	2	3	3	...	1	...	1	...	2	1	11	2	...	...	...	3	1	1	...	1	1	...	...	...	...	...	...	1

Shiawassee	Totals	209	11	12	16	22	14	19	16	19	23	13	22	22	..	61	11	5	8	14	7	10	5	3	10	5	8	15	15	9	9	12	1
	Males	103	4	5	8	13	9	9	9	8	11	4	12	11	..	33	3	2	4	4	3	3	2	2	2	....	3	10	10	8	7	7	...
	Females	106	7	7	8	9	5	10	7	11	12	9	10	11	..	28	8	3	4	10	4	7	3	1	8	5	5	5	5	1	2	6	1
St. Clair	Totals	449	35	30	28	33	45	24	38	46	34	45	44	46	1	152	25	19	20	25	23	18	9	17	7	11	12	18	26	17	20	22	8
	Males	259	23	16	17	17	24	11	24	33	16	29	27	21	1	90	14	10	11	15	11	10	5	11	2	3	6	10	17	10	14	15	5
	Females	186	12	14	11	16	20	13	14	12	17	16	16	25	..	58	11	9	9	10	12	8	4	6	5	8	6	8	9	7	6	7	2
	Unknown	4	....	....	....	....	1	....	....	1	1	....	1	....	..	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
St. Joseph	Totals	262	28	30	22	18	22	24	17	20	27	17	17	20	..	41	11	5	5	7	9	8	6	11	11	14	10	20	29	25	25	24	1
	Males	139	16	13	15	11	9	13	10	11	15	9	11	6	..	21	5	2	3	2	2	2	4	5	6	7	8	14	15	15	8	19	1
	Females	121	12	17	7	7	11	11	7	9	12	8	6	14	..	18	6	3	2	5	7	6	2	6	5	7	2	6	14	10	17	5	...
	Unknown	2	....	....	....	....	2	....	....	....	....	....	....	....	..	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
Tuscola	Totals	250	22	21	24	14	12	14	22	23	21	27	17	33	..	62	11	4	12	13	7	12	14	16	10	4	8	18	13	12	13	19	2
	Males	130	16	13	9	8	7	7	9	12	8	17	8	16	..	31	7	2	7	2	5	7	8	5	2	2	5	10	4	7	9	15	2
	Females	120	6	8	15	6	5	7	13	11	13	10	9	17	..	31	4	2	5	11	2	5	6	11	8	2	3	8	9	5	4	4	...
Van Buren	Totals	314	27	43	30	23	23	11	18	22	36	24	22	35	..	78	12	13	10	8	15	5	7	12	5	16	17	20	15	26	30	20	5
	Males	163	15	17	18	13	10	3	7	8	18	15	16	23	..	41	5	6	5	5	3	2	3	6	4	6	10	7	11	15	23	9	2
	Females	150	12	26	12	10	12	8	11	14	18	9	6	12	..	36	7	7	5	3	12	3	4	6	1	10	7	13	4	11	7	11	3
	Unknown	1	....	....	....	....	1	....	....	....	....	....	....	....	..	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
Washtenaw	Totals	378	32	27	34	30	35	34	20	31	34	29	24	48	..	57	8	11	10	12	11	14	12	13	10	20	20	28	21	36	31	55	9
	Males	214	19	19	13	16	16	23	13	20	22	13	12	28	..	33	7	6	4	6	5	5	6	4	7	12	12	17	12	24	18	31	5
	Females	164	13	8	21	14	19	11	7	11	12	16	12	20	..	24	1	5	6	6	6	9	6	9	3	8	8	11	9	12	13	24	4
Wayne	Totals	5,505	465	392	493	520	428	419	569	466	448	446	413	442	4	2536	338	153	170	188	265	210	245	183	181	134	117	166	167	137	121	133	61
	Males	3,056	264	209	264	270	244	239	337	289	233	245	213	247	2	1351	193	70	92	103	153	112	144	104	134	81	79	102	99	74	66	75	24
	Females	2,445	200	183	229	250	183	180	232	177	214	201	200	194	2	1182	145	83	78	85	112	98	101	79	47	53	38	64	68	63	55	58	36
	Unknown	4	1	....	....	....	1	....	....	....	1	....	....	1	.	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
Wexford	Totals	73	5	1	5	4	5	4	4	13	7	9	3	12	1	35	5	3	6	3	1	1	1	1	3	....	3	1	3	1	2	4	...
	Males	40	3	1	2	....	2	1	3	10	5	5	1	7	..	22	....	1	2	1	1	....	....	1	3	....	2	1	1	....	2	3	...
	Females	33	2	....	3	4	3	3	1	3	2	4	2	5	1	13	5	2	4	2	....	1	1	....	....	....	1	....	2	1	....	1	...

COLOR OF DECEDENTS IN MICHIGAN IN 1890.

Deaths classified by color of decedents may be learned from table 62. The rate of deaths to population of same color will be found in the last column of the table. The death rate for 1889 was as follows: White, 1.10; black, 2.38; mulatto, .51; Indian, 1.83; unknown, .39. A comparison of these figures with the per cents of the table will show some difference in the rates.

TABLE 62.—*Deaths returned for the year 1890, distinguishing the color by number and proportion of each sex, and by sex, the per cent of decedents of each color to total of all colors, and the per cent of decedents to inhabitants.*

Color.	Sex.	Population, June 1, 1884.	Number of deaths returned.	Per cent of deaths of each sex to total of both sexes.	Males to 100 females.	Per cent of deaths of each color to total of all colors by sex.	Per cent of inhabitants of each color to total of all colors by sex, June 1, 1884.	Death-rate per cent of deaths in 1889 to population in 1884.
All colors	Totals	a 1,841,797	21,642	.....	.....	100.00	.....	1.17
	Males	967,713	11,801	54.70	120	100.00	.....	1.21
	Females	873,878	9,771	45.30	.....	100.00	.....	1.11
	Unknown	206	70	.....	.....	.....	.....	.....
White	Totals	1,819,394	21,125	.....	.....	97.61	98.74	1.09
	Males	956,061	11,556	54.82	121	97.92	98.79	1.20
	Females	863,323	9,526	45.18	.....	97.49	98.79	1.13
	Unknown	10	43	.....	.....	.....	.....	.....
Black	Totals	6,815	333	.....	.....	1.53	.37	4.88
	Males	3,673	163	48.95	95	1.38	.37	4.43
	Females	3,142	170	51.05	.....	1.73	.35	5.41
Mulatto	Totals	8,267	52	.....	.....	.24	.44	.62
	Males	4,211	25	48.08	93	.21	.43	.59
	Females	4,056	27	51.92	.....	.27	.46	.66
Indian	Totals	6,194	93	.....	.....	.42	.34	1.50
	Males	3,214	48	51.61	102	.40	.33	1.49
	Females	2,980	45	48.38	.....	.45	.34	1.51
Unknown	Totals	1,057	39	.....	.....	.18	.05	3.68
	Males	484	9	75.00	300	.07	.05	1.85
	Females	377	3	25.00	.....	.03	.04	.79
	Unknown	196	27	.....	.....	.....	.....	.....
Black and Mulatto	Totals	15,082	385	.....	.....	1.77	.81	2.55
	Males	7,884	188	48.83	95	1.59	.81	2.38
	Females	7,198	197	51.17	.....	2.01	.82	2.73

a Includes 70 Asiatic males.

TABLE 63.—*Exhibiting, by number and by sex, for the State and counties, the col of decedents, returned for the year 1890.*

State and counties.	All colors, 1890.				White.				Black.				Mulatto.				Indian.				Unkno		
	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.
State	21,642	11,801	9,771	70	21,125	11,556	9,526	43	338	163	170	..	52	25	27	..	93	48	45	..	39	9	2
Alcona	15	12	2	1	15	12	2	1	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Alger	8	3	5	..	7	2	5	..	1	1	....	..	....	..	..	..	..	..	..	..	..	..	..
Allegan	299	156	140	3	295	154	140	1	....	....	....	..	....	..	..	..	1	1	..	..	3	1	..
Alpena	114	57	57	..	114	57	57	..	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Antrim	58	30	27	1	58	30	27	1	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Arenac	41	22	19	..	41	22	19	..	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Baraga	43	22	21	..	31	17	14	..	....	....	....	..	....	..	..	..	12	5	7	..	..	..	..
Barry	158	74	84	..	158	74	84	..	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Bay	493	279	213	1	489	276	213	..	1	1	....	..	....	..	..	..	1	1	..	..	2	1	..
Benzie	59	24	35	..	59	24	35	..	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Berrien	343	183	159	1	330	176	153	1	9	5	4	..	4	2	2	..	..	..	..	..	..	..	..
Branch	284	152	132	..	282	152	130	..	2	....	2	..	....	..	..	..	..	..	..	..	..	..	..
Calhoun	343	173	168	2	335	170	163	2	6	2	4	..	1	1	..	..	1	..	1	..	..	..	..
Cass	170	93	69	8	141	83	56	2	5	3	2	..	15	7	8	..	2	..	2	..	..	..	..
Charlevoix	77	40	37	..	77	40	37	..	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Cheboygan	97	54	43	..	92	50	42	..	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Chippewa	67	42	24	1	67	42	24	1	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Clare	47	23	24	..	47	23	24	..	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Clinton	234	127	106	1	234	127	106	1	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Crawford	16	12	4	..	16	12	4	..	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Delta	151	80	71	..	151	80	71	..	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Eaton	287	130	155	2	286	130	155	1	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Emmet	68	46	22	..	40	29	11	..	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Genesee	301	160	141	..	301	160	141	..	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Gladwin	3	1	2	..	3	1	2	..	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Gogebic	85	46	39	..	85	46	39	..	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Grn'd Traverse	85	48	37	..	85	48	37	..	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Gratiot	159	84	74	1	159	84	74	1	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Hillsdale	280	151	128	1	280	151	128	1	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Houghton	326	188	136	2	326	188	136	2	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..
Huron	227	130	97	..	227	130	97	..	....	....	....	..	....	..	..	..	..	..	..	..	..	..	..

TABLE 63.—CONTINUED.—*Deaths by counties, by color, by sex.*

Counties.	All colors, 1890.				White.				Black.				Mulatto.				Indian.				Unknown.			
	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.
Ingham	373	181	192	..	360	175	185	..	12	6	6	..	..	..	..	..	..	..	..	..	1	..	1	..
Ionia	243	116	126	1	240	113	126	1	1	1	..	..	..	..	..	..	..	..	..	..	2	2	..	..
Iosco	129	83	44	2	126	83	43	..	1	..	1	..	..	..	..	..	..	..	..	..	2	..	..	1
Iron	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Isabella	147	75	72	..	139	71	68	..	..	..	..	..	..	..	..	..	8	4	4	..	..	..	..	..
Jackson	467	251	216	..	461	249	212	..	6	2	4	..	..	..	..	..	..	..	..	..	..	..	..	..
Kalamazoo	413	207	206	..	406	204	202	..	6	3	3	..	1	..	1	..	..	..	..	..	..	..	..	..
Kalkaska	28	8	20	..	27	8	19	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..
Kent	1,314	729	577	8	1,289	716	572	1	17	13	4	..	1	..	1	..	..	..	..	..	7	..	..	7
Keweenaw	45	27	18	..	45	27	18	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake	16	8	8	..	16	8	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lapeer	201	102	99	..	200	101	99	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leelanau	68	38	30	..	53	30	23	..	..	..	..	..	..	..	..	..	15	8	7	..	..	..	..	..
Lenawee	447	230	215	2	437	227	208	2	9	3	6	..	1	..	1	..	..	..	..	..	..	..	..	..
Livingston	130	65	65	..	130	65	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Luce	2	2	..	..	1	1	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mackinac	18	7	10	1	12	7	4	1	..	..	..	..	..	..	..	..	6	..	6	..	..	..	..	..
Macomb	324	168	156	..	323	168	155	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Manistee	241	129	106	6	241	129	106	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manitou	2	1	1	..	2	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Marquette	488	331	157	..	488	331	157	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mason	119	67	52	..	116	66	50	..	2	..	2	..	..	..	..	..	1	1	..	..	..	..	..	..
Mecosta	147	80	67	..	147	80	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Menominee	312	186	121	5	307	186	121	..	..	..	..	..	..	..	..	..	..	..	..	..	5	..	..	5
Midland	73	44	29	..	73	44	29	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Missaukee	54	31	23	..	54	31	23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Monroe	274	131	141	2	270	128	140	2	3	2	1	..	..	..	..	..	1	1	..	..	..	..	..	..
Montcalm	236	133	103	..	236	133	103	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Montmorency	5	3	2	..	5	3	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Muskegon	436	230	204	2	434	229	203	2	2	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Newaygo	120	76	43	1	119	75	43	1	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..
Oakland	394	220	174	..	385	216	169	..	8	4	4	..	1	..	1	..	..	..	..	..	..	..	..	..
Oceana	101	60	41	..	101	60	41	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ogemaw	34	20	14	..	34	20	14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ontonagon	27	22	5	..	23	21	2	..	..	..	..	..	1	..	1	..	3	1	2	..	..	..	..	..
Osceola	127	71	56	..	127	71	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE 63.—CONCLUDED.—*Deaths by counties, by color, by sex.*

Counties.	All colors, 1890.				White.				Black.				Mulatto.				Indian.				Unknown.			
	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.
Oscoda	5	4	1	..	5	4	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Otsego	32	13	19	..	32	13	19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ottawa	330	182	146	2	329	182	145	2	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Presque Isle	27	15	12	..	27	15	12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Roscommon	10	7	3	..	9	6	3	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..
Saginaw	1,032	574	456	2	1,020	566	452	2	5	3	2	..	..	..	..	..	6	4	2	..	1	1	..	..
Sanilac	229	105	124	..	229	105	124	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Schoolcraft	44	23	21	..	44	23	21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Shiawassee	209	103	106	..	209	103	106	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Clair	449	259	186	4	447	258	185	4	..	..	..	..	1	..	1	..	..	..	..	..	1	1	..	..
St. Joseph	262	139	121	2	259	137	120	2	..	..	..	..	..	..	..	..	..	..	..	..	3	2	1	..
Tuscola	250	130	120	..	250	130	120	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Van Buren	314	163	150	1	305	159	145	1	..	..	..	..	9	4	5	..	..	..	..	..	..	..	..	..
Washtenaw	378	214	164	..	372	212	160	..	3	1	2	..	2	1	1	..	1	..	1	..	..	..	..	..
Wayne	5,505	3,056	2,445	4	5,257	2,936	2,320	1	230	110	120	..	14	9	5	..	..	..	..	..	4	1	3	..
Wexford	73	40	33	..	73	40	33	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

DEATHS OF NATIVE AND FOREIGN BORN INHABITANTS.

Deaths arranged by nativity of decedents for the years 1888 and 1890 inclusive, with a ten years' average ending with 1889, are given in table 64. The per cent of native decedents for 1890 is below the per cent of the same class for 1889, and that of the foreign born decedents is above that of the same class in the average column. This is true for every year of the table.

TABLE 64.—*Nativity of decedents in Michigan for the years 1888–1890, and the average for ten years, 1880–1889.*

Nativity of decedents.	Deaths, 1888.		Deaths, 1889.		Deaths, 1890.		Average for 10 years, ending with 1889.	
	Number.	Per cent of total.	Number.	Per cent of total.	Number.	Per cent of total.	Number.	Per cent of total.
All nativities	21,764	100.00	20,315	100.00	21,642	100.00	18,312	100.00
Native born	16,328	75.02	15,171	74.68	15,890	73.42	14,090	76.95
Foreign born	4,501	20.68	4,405	21.68	4,908	22.68	3.639	19.87
Unknown	935	4.30	739	3.64	844	3.90	5.83	3.15

TABLE 65.—*By nativity, sex and periods of age, the population in 1884, the number of deaths in 1890, and the per cent of deaths to inhabitants.*

Ages in years and periods.	Inhabitants of Michigan June 1, 1884.						Deaths in Michigan in 1890.						Death rate; number of deaths to 100 living.					
	All nativities.		Native.		Foreign.		All nativities.		Native.		Foreign.		All nativities.		Native.		Foreign.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Totals	974,424	879,028	695,490	662,145	272,298	214,669	11,296	9,446	8,438	7,391	2,853	2,055	1.15	1.07	1.21	1.11	1.04	.95
Under 5	114,852	111,116	108,681	105,166	5,972	5,763	4,331	3,472	4,206	3,331	125	141	3.77	3.12	3.87	3.16	2.09	2.44
5 to 10	110,263	107,363	96,903	94,682	13,126	12,491	561	513	521	463	40	50	.50	.47	.53	.48	.30	.40
10 to 15	99,721	96,503	86,116	83,467	13,373	12,858	301	298	265	259	36	39	.30	.30	.30	.31	.26	.30
15 to 20	92,033	91,010	72,783	72,803	18,910	17,997	378	380	302	312	76	68	.41	.41	.41	.42	.40	.37
20 to 30	190,217	163,177	122,786	115,746	65,028	46,937	860	882	553	653	307	229	.45	.54	.45	.56	.47	.48
[illegible]	139,282	116,333	80,547	74,032	57,399	4,981	798	760	452	513	346	247	.57	.65	.56	.69	.60	4.95
[illegible]	97,361	[illegible]	53,408	52,016	43,354	33,674	746	575	359	357	387	218	.76	.67	.67	.68	.89	.64
[illegible]	[illegible]	36,321	37,026	32,613	30,651	23,550	633	561	249	316	384	245	.93	.99	.67	.96	1.25	1.04
[illegible]	[illegible]	[illegible]	23,640	19,915	16,939	13,139	1,000	732	513	417	487	335	2.45	2.26	2.17	2.09	2.87	2.55
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5,865	4,899	980	725	586	429	394	289	5.72	5.53	5.24	4.76	6.69	6.10
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1,289	1,263	601	441	380	280	221	161	14.89	12.05	14.32	11.77	15.91	12.74
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	117	117	84	67	61	50	23	10.57	24.00	36.81	48.80	18.38	19.65

TABLE 66.—*Exhibiting by number and by sex, for the State and counties, the nativity of decendents returned for the year 1890.*

State and counties.	All nativities, 1890.				Native.				Foreign.				Unknown.			
	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.
State	21,642	11,801	9,771	70	15,890	8,438	7,391	66	4,908	2,853	2,055	..	844	515	325	4
Alcona	15	12	2	1	13	10	2	1	2	2	.....	..	.....	.....	....	..
Alger	8	3	5	....	7	2	5	....	.....	.....	.....	..	1	1	....	..
Allegan	299	156	140	3	233	122	108	3	57	30	27	..	9	4	5	..
Alpena	114	57	57	....	72	36	36	....	42	21	21	..	.....	.....	....	..
Antrim	58	30	27	1	52	29	22	1	6	1	5	..	.....	.....	....	..
Arenac	41	22	19	....	27	15	12	....	14	7	7	..	.....	.....	....	..
Baraga	43	22	21	....	24	10	14	....	18	11	7	..	1	1	....	..
Barry	158	74	84	....	141	66	75	....	14	6	8	..	3	2	1	..
Bay	493	279	213	1	347	189	157	1	122	76	46	..	24	14	10	..
Benzie	59	24	35	....	35	8	27	....	16	8	8	..	8	8	....	..
Berrien	343	183	159	1	283	147	135	1	43	28	15	..	17	8	9	..
Branch	284	152	132	....	248	131	117	....	20	12	8	..	16	9	7	..
Calhoun	343	173	168	2	284	140	142	2	35	20	15	..	24	13	11	..
Cass	170	93	69	8	151	80	64	7	10	8	2	..	9	5	3	1
Charlevoix	77	40	37	....	64	34	30	....	12	5	7	..	1	1	....	..
Cheboygan	97	54	43	....	74	40	34	....	22	13	9	..	1	1	....	..
Chippewa	67	42	24	1	42	29	12	1	25	13	12	..	.....	.....	....	..
Clare	47	23	24	....	33	14	19	....	10	5	5	..	4	4	....	..
Clinton	234	127	106	1	199	106	92	1	31	18	13	..	4	3	1	..
Crawford	16	12	4	....	13	11	2	....	1	.....	1	..	2	1	1	..
Delta	151	80	71	....	107	50	57	....	30	19	11	..	14	11	3	..
Eaton	287	130	155	2	243	107	134	2	35	20	15	..	9	3	6	..
Emmet	68	46	22	....	62	41	21	....	4	4	.....	..	2	1	1	..
Genesee	301	160	141	....	241	128	113	....	48	25	23	..	12	7	5	..
Gladwin	3	1	2	....	1	.....	1	....	2	1	1	..	.....	.....	....	..
Gogebic	85	46	39	....	54	23	31	....	26	19	7	..	5	4	1	..
Gd Traverse	85	48	37	....	46	22	24	....	36	25	11	..	3	1	2	..
Gratiot	159	84	74	1	136	70	65	1	14	9	5	..	9	5	4	..
Hillsdale	280	151	128	1	213	125	88	....	22	11	11	..	45	15	29	1
Houghton	326	188	136	2	223	125	96	2	103	63	40	..	.....	.....	....	..
Huron	227	130	97	....	145	81	64	....	82	49	33	..	.....	.....	....	..

TABLE 66.—CONTINUED.—*Deaths by counties, by nativity, by sex.*

Counties.	All nativities, 1890.				Native.				Foreign.				Unknown.			
	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.	Totals.	Males.	Females.	Unknown.
Oscoda	5	4	1	....	4	3	1	....	.....	.....	.....	..	1	1	....	..
Otsego	32	13	19	....	28	10	18	....	3	2	1	..	1	1	....	..
Ottawa	330	182	146	2	214	117	96	1	100	57	43	..	16	8	7	1
Presque Isle	27	15	12	....	16	8	8	....	11	7	4	..	.....	.....	....	..
Roscommon	10	7	3	....	7	4	3	....	2	2	.....	..	1	1	....	..
Saginaw	1,032	574	456	2	693	375	316	2	311	185	126	..	28	14	14	..
Sanilac	229	105	124	....	151	69	82	....	72	33	39	..	6	3	3	..
Schoolcraft	44	23	21	....	35	18	17	....	7	4	3	..	2	1	1	..
Shiawassee	209	103	106	....	171	82	89	....	31	15	16	..	7	6	1	..
St. Clair	449	259	186	4	287	166	117	4	151	86	65	..	11	7	4	..
St. Joseph	262	139	121	2	205	103	100	2	36	24	12	..	21	12	9	..
Tuscola	250	130	120	....	182	89	93	....	44	23	21	..	24	18	6	..
Van Buren	314	163	150	1	272	136	135	1	30	19	11	..	12	8	4	..
Washtenaw	378	214	164	....	249	133	116	....	95	61	34	..	34	20	14	..
Wayne	5,505	3,056	2,445	4	3,793	2,050	1,739	4	1,535	895	640	..	177	111	66	..
Wexford	73	40	33	....	62	33	29	....	8	6	2	..	3	1	2	..

CAUSES OF DEATH, 1890.

The causes of death are arranged in five classes in Table 67, and are given for three years with a ten years' average. The number of deaths from zymotic causes for 1890 was 5,627; this, as will be seen, was more than for any year of the table. Of the constitutional disease class, which includes cancer and consumption, the number is more than for 1889 and less than for 1888. Class three, local diseases, affecting different organs of the body as the brain and nervous system, shows the same variation. The tables following in the rest of this work are, in many respects, the most important in the report, and form a reliable basis from which valuable conclusions concerning the public health may be drawn.

While the leading causes of death in Michigan are not absolutely peculiar to its own special area, there are certain diseases, more prominent than others that demand our most thoughtful consideration. These principal causes will now be taken up, classified and studied with reference to their effect upon the mortality rate in the State.

TABLE 67.—*Number of deaths returned from all causes, from each class of causes and the per cent of deaths from each class, to deaths from all causes, for the years 1888–1890, and the average for ten years, 1880–1889.*

Causes of death—classes.	1888.		1889.		1890.		Average for 10 years, 1880-1889.	
	Number.	Per cent of total.	Number.	Per cent of total.	Number.	Per cent of total.	Number.	Per cent of total.
All causes	21,764	100.00	20,315	100.00	21,642	100.00	18,312	100.00
I.—Zymotic diseases	4,994	22.95	4,772	23.49	5,627	26.00	4,831	26.38
II.—Constitutional diseases	3,527	16.20	3,123	15.37	3,406	15.74	2,938	16.04
III.—Local diseases	6,956	31.96	6,459	31.79	6,757	31.22	5,473	29.89
IV.—Developmental diseases	3,950	18.15	3,549	17.47	3,149	14.55	2,780	15.18
V.—Violent deaths	1,033	4.75	1,096	5.40	1,075	4.97	946	5.17
Unknown and unclassified	1,304	5.99	1,316	6.48	1,628	7.52	1,344	7.34

TABLE 68.—*By months, the number of deaths returned in Michigan from all causes and from each class of causes during the year 1890.*

Causes of death—classes.	Year, 1890.	Months of death, 1890.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
All causes	21,642	1745	1599	1776	1807	1704	1633	1849	2032	1892	1808	1739	2027	31
I.—Zymotic diseases	5,627	430	453	469	459	384	354	519	687	585	476	397	408	6
II.—Constitutional diseases	3,406	296	265	290	302	298	264	263	279	280	285	280	309	4
III.—Local diseases	6,757	580	487	396	572	567	521	535	554	516	545	554	722	8
IV.—Developmental diseases	3,149	260	218	252	248	253	252	284	265	261	269	287	314	6
V.—Violent deaths	1,075	62	59	55	78	85	118	130	100	73	90	99	106	.....
Unknown and unclassified	1,628	117	117	114	128	117	124	118	147	177	143	142	177	7

In the following table are given the most important zymotic diseases, and the number of deaths caused thereby for twelve years. Diphtheria stands highest, and typhoid fever next.

TABLE 69.—*Deaths in Michigan from some of the prominent zymotic diseases during the twelve years 1879–1890, and the average.*

Years.	Diseases.						
	Typhoid fever.	Whooping cough.	Croup.	Diphtheria.	Measles.	Scarlet fever.	Small-pox.
1879	397	162	278	1,473	167	418	6
1880	513	264	322	1,542	125	370	3
1881	884	142	390	2,063	256	363	82
1882	463	86	349	1,416	150	592	100
1883	439	92	336	1,007	258	673	5
1884	514	160	325	1,065	144	326	3
1885	387	138	337	1,054	38	245	3
1886	498	185	400	1,117	129	319	6
1887	770	110	399	935	285	318	.....
1888	638	174	474	717	414	323	3
1889	637	140	357	848	104	240	2
1890	465	75	415	1,266	229	222	6
Average	550	144	364	1,209	192	369	18

Local diseases are treated in Table 70 as were zymotic in Table 69. Diseases of the rt are, as usual, most numerous.

TABLE 70.—*Deaths in Michigan from some of the principal local diseases returned for the twelve years 1879–1890, and the average.*

Years.	Diseases.					
	Convulsions.	Heart disease.	Bronchitis.	Pleurisy	Peritonitis.	Bright's disease.
1879	275	451	53	20	16	36
1880	348	482	50	26	12	80
1881	337	518	76	19	20	89
1882	356	562	106	16	21	138
1883	344	684	89	20	16	187
1884	436	718	98	18	27	179
1885	452	730	113	16	22	198
1886	431	725	97	20	32	214
1887	474	847	125	25	35	205
1888	516	961	199	46	46	210
1889	453	976	114	25	50	229
1890	349	1,060	182	27	98	219
Average	398	726	108	23	33	165

TABLE 71.—*Deaths in Michigan from chief developmental diseases, returned for the twelve years 1879–1890, and the average.*

Years.	Disease.					
	Teething.	Still-born, infantile, premature	Child-birth.	Abortion.	Puerperal convulsions.	Old age.
1879	40	787	193	12	5	608
1880	49	808	193	6	2	625
1881	84	761	192	8	.....	725
1882	83	890	199	9	3	647
1883	55	1,034	221	12	4	726
1884	57	1,462	222	6	4	795
1885	49	1,612	217	12	1	773
1886	75	1,542	213	7	2	865
1887	81	1,607	223	11	1	917
1888	89	2,070	243	5	1	1,174
[illegible]	82	1,876	242	8	3	965
[illegible]	67	1,587	185	8	3	980
[illegible]	68	1,336	212	9	2	817

TABLE 72.—*Deaths in Michigan from some of the prominent violent causes returned for the twelve years, 1879–1890.*

Years.	Burns and scalds.	Poison.	Railroad accident.	Drowning.	Freezing.	Homicide.	Suicide.	Totals.
1879	64	15	40	122	5	15	59	320
1880	64	22	40	179	3	7	65	380
1881	175	25	75	125	2	15	57	474
1882	57	22	58	140	3	11	62	353
1883	65	33	109	158	.....	15	91	471
1884	69	16	73	150	1	24	104	437
1885	67	26	76	132	6	28	91	426
1886	58	18	72	144	5	30	82	409
1887	49	31	90	163	1	29	105	468
1888	55	21	113	161	2	14	101	467
1889	93	28	110	130	7	32	94	494
1890	50	37	72	173	4	14	108	458
Average	75	25	77	148	3	20	85	432

TABLE 73.—*Deaths in Michigan, returned from brain disorders—twelve years.*

Years.	Softening of the brain.	Apoplexy.	Paralysis.	Insanity.	Cephalitis and unspecified brain diseases.	Totals.
1879	25	103	262	7	400	797
1880	27	119	278	8	475	907
1881	23	110	258	10	541	942
1882	36	87	357	8	448	936
1883	22	85	345	22	439	913
1884	40	130	397	17	524	1,108
1885	36	116	400	24	491	1,067
1886	30	158	485	25	492	1,190
1887	38	135	450	33	516	1,172
1888	37	144	553	25	583	1,342
1889	39	147	533	26	514	1,259
1890	27	148	558	30	513	1,276
Average	32	124	406	20	495	1,083

DEATHS IN 1890, GROUPED IN PART OF BODY DISEASED.

Diseases of certain organs of the body are grouped in Table 74. Disease of the lungs has the highest number for every year of the table. A glance at the table will show the number of deaths from these causes.

TABLE 74.—*Order of seven groups of causes of deaths returned for the years 1889, 1890, inclusive, and the average for ten years, 1880, 1890.*

1888.			1889.			1890.			Average for 10 years, 1880-1889.		
Disease of	No.	Per cent to all causes.	Disease of	No.	Per cent to all causes.	Disease of	No.	Per cent to all causes.	Disease of	No.	Per cent to all causes.
All causes.	21,764	100.00	All causes	20,315	100.00	All causes	21,642	100.00	All causes	18,812	100.00
Lungs	4,345	19.96	Lungs	3,693	18.18	Lungs	3,804	17.58	Lungs	3,550	19.38
Bowels	2,583	11.87	Bowels	2,066	10.17	Bowels	2,313	10.69	Bowels	2,273	12.41
Brain	2,393	11.00	Brain	1,988	9.79	Brain	1,481	6.84	Brain	2,054	11.22
Throat	1,245	5.72	Throat	1,404	6.91	Throat	1,961	9.06	Throat	1,532	8.36
Heart	1,094	5.03	Heart	1,065	5.24	Heart	1,201	5.54	Heart	828	4.52
Kidneys	451	2.07	Kidneys	454	2.23	Kidneys	299	1.38	Kidneys	354	1.93
Liver	351	1.61	Liver	378	1.86	Liver	111	.51	Liver	186	1.02
7 groups	12,462	57.26	7 groups	11,048	54.38	7 groups	11,170	51.61	7 groups	10,777	58.85

TABLE 75.—*Eleven geographical divisions of the state, with a list of counties included in each division.*

Upper Peninsular.	North-western.	Northern.	North-eastern.	Western.	Northern central.	Eastern.	Central.	South-western.	Southern central.	South-eastern.
Alger.	Benzie.	Antrim.	Alcona.	Kent.	Clare.	Arenac.	Barry.	Allegan.	Branch.	Macomb.
Baraga.	G'd Traverse.	Charlevoix.	Alpena.	Lake.	Gladwin.	Bay.	Clinton.	Berrien.	Calhoun.	Monroe.
Chippewa.	Leelanaw.	Cheboygan.	Iosco.	Mason.	Isabella.	Huron.	Eaton.	Cass.	Hillsdale.	Oakland.
Delta.	Manistee.	Crawford.	Montmorency.	Muskegon.	Mecosta.	Lapeer.	Genesee.	Van Buren.	Jackson.	Wayne.
Gogebic.	Manitou.	Emmet.	Ogemaw.	Newaygo.	Midland.	Saginaw.	Gratiot.		Kalamazoo.	
Houghton.	Wexford.	Kalkaska.	Oscoda.	Oceana.	Missaukee.	Sanilac.	Ingham.		Lenawee.	
Iron.		Otsego.	Presque Isle.	Ottawa.	Osceola.	St. Clair.	Ionia.		St. Joseph.	
Isle Royal.					Roscommon.	Tuscola.	Livingston.		Washtenaw.	
Keweenaw.							Montcalm.			
Luce.							Shiawassee.			
Mackinac.										
Marquette.										
Menominee.										
Ontonagon.										
Schoolcraft.										

DEATHS 1890, BY CLASSES OF CAUSES, BY DIVISIONS OF THE STATE.

The death rate of the several general classes of disease for the different geographical sections of the State may be seen in Table 76.

As for 1889, the largest proportion was in the local diseases. The zymotic diseases are highest in the northern sections, as are the violent deaths. The northern central shows the lowest death rate, as based upon the population of 1884. The table is an interesting one, and will repay studying.

TABLE 76.—*Exhibiting, by geographical divisions, the number of deaths, the per cent of deaths in 1890 to population in 1884, the per cent of deaths for each division to total deaths for the State, and the per cent of deaths from each class of causes to deaths from all causes.*

State and geographical divisions.	Population June 1, 1884, represented by deaths in 1890.	Deaths reported, 1890.		Per cent of all deaths in 1890 to population in 1884.	Per cent of deaths from each class of causes to deaths from all causes by geographical divisions.					
		Number.	Per cent of total.		Class I.—Zymotic diseases.	Class II.—Constitutional diseases.	Class III.—Local diseases.	Class IV.—Developmental diseases.	Class V.—Violent deaths.	Unknown and unclassified.
State	1,841,797	21,642	100.00	1.18	26.00	15.73	31.22	14.55	4.50	7.52
Upper Peninsular	114,715	1,616	7.46	1.41	33.84	9.34	24.87	14.41	8.84	8.53
Northwestern	55,200	528	2.44	.96	20.64	15.71	27.08	16.28	6.06	14.20
Northern	40,805	376	1.74	.92	35.10	15.42	21.27	12.50	6.11	10.37
Northeastern	34,586	329	1.52	.95	24.01	12.15	21.58	13.67	7.29	30.06
Western	211,704	2,436	11.26	1.15	30.58	15.68	28.11	13.34	4.72	7.55
Northern central	72,013	608	2.81	.84	27.46	14.96	27.13	13.15	6.57	10.85
Eastern	291,713	2,922	13.50	1.00	25.56	14.30	30.55	13.65	6.09	9.60
Central	299,364	2,330	10.77	.78	24.38	16.99	36.56	11.88	3.60	6.56
Southwestern	127,985	1,126	5.20	.88	22.55	19.62	30.99	13.32	5.59	7.90
Southern central	299,000	2,874	13.28	.96	20.63	17.81	37.86	13.12	4.94	5.94
Southeastern	294,712	6,497	30.02	2.21	25.85	16.22	31.23	17.38	3.55	5.63

TABLE 77.—CAUSES OF DEATH.—Nosological Arrangement.

Exhibiting the number of reported deaths in Michigan, and in each county of the State, during the year 1890, from specified causes, statistically classified (still births included).

Causes of death, 1890.	State.	Counties.																										
		Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.
All causes	21,642	15	8	299	114	58	41	43	158	493	59	343	284	343	170	77	97	67	47	234	16	151	287	68	301	3	85
Specified causes	20,069	13	8	203	87	51	38	39	149	447	54	309	277	327	155	71	87	54	40	224	14	134	269	63	283	2	76
Causes not specified	1,513	2	----	26	27	7	3	4	9	46	5	34	7	16	15	6	10	13	7	10	2	17	18	5	18	1	9
CLASSES.																												
I.—Zymotic diseases	5,627	5	2	71	27	24	8	12	42	131	13	80	58	62	29	32	25	24	14	70	6	47	69	18	51	----	26
II.—Constitutional diseases	3,406	1	2	68	16	2	9	8	24	68	15	58	56	78	34	14	18	6	7	31	1	22	60	19	49	1	5
III.—Local diseases	6,757	2	----	82	24	16	12	11	62	128	17	106	116	115	50	10	18	5	10	91	4	29	105	15	123	----	26
IV.—Developmental diseases	3,149	2	1	30	8	8	6	4	17	67	7	49	35	49	31	10	20	9	7	27	2	28	23	4	47	----	8
V.—Violent deaths	1,075	3	3	22	8	1	3	2	4	49	1	16	12	23	9	5	6	4	2	5	1	8	12	7	12	1	11
Unclassified	115	----	----	----	3	----	----	2	----	4	1	----	----	----	2	----	----	6	----	----	----	----	----	----	1	----	----
ORDERS.																												
I.—1. Miasmatic diseases	4,582	5	2	71	27	24	8	12	42	131	13	80	58	62	27	32	25	24	14	70	6	47	68	17	49	----	26
2. Enthetic diseases	15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1	----	2	----	----
3. Dietic diseases	22	----	----	----	----	----	----	----	----	----	----	----	----	----	4/2	----	----	----	----	----	----	----	----	1	----	----	----
4. Parasitic diseases	8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
II.—1. Diathetic diseases	996	----	----	26	2	2	2	----	6	14	5	14	20	24	9	3	1	----	2	12	1	2	17	1	20	----	----
2. Tubercular diseases	2,410	1	2	42	15	----	7	8	18	54	10	44	36	54	25	11	17	6	5	19	----	20	48	18	29	1	5

III.—1. Diseases of nervous system	2,082	1		24	8	7	2	1	21	30	2	45	42	35	24	3	7	1	3	21	1	9	32	4	40		3
2. Diseases of organs of circulation	1,198	1		19	2	2	1		13	26	4	26	28	26	6	2	2		2	16	1	3	35	5	27		2
3. Diseases of respiratory organs	1,756			21	9	3	2	6	11	43	6	15	20	24	4	2	5	2	3	27	1	9	15		18		14
4. Diseases of digestive organs	1,116			9	5	2	4	4	9	13	5	11	11	19	7	3	2	2	1	16		5	12	4	22		6
5. Diseases of urinary organs	425			7		1	1		5	7		6	12	6	5		2			8	1	3	5	2	13		
6. Diseases of generative organs	3									1																	
7. Diseases of organs of locomotion	19									1				1									1				
8. Diseases of integumentary system	158			2	1	1	2		3	4		3	3	4	4				1	3			5		3		1
IV.—1. Developmental diseases of children	1,671	2	1	12	10	4	3	2	7	46	3	20	12	23	13	8	16	7	4	9		22	9	3	14		4
2. Developmental diseases of women	198			4		1	1		4	5	3	6	1	5				1	1	3	1	3	2		5		3
3. Developmental diseases of old people	979			13	3	1	2	2	6	16	1	19	19	19	11	2	2	1	2	13	1	3	12	1	23		1
4. Diseases of nutrition	299																										
V.—1.—Accident or negligence	585	2	3	13	4	1	3	1	4	29	1	8	2	12	5	4	5	4		2	1	6	7	7	10	1	10
2. Homicide	14									2					1												
3. Suicide	108	1		3						5		2	5	4	1					1				2		2	1
4. Violent deaths (not included above)	382			6				1		18	1	6	5	7	2	1	1		2	2		2	3				7
CLASS I.—ZYMOTIC	5,627	5	2	71	27	24	8	12	42	131	13	88	58	62	29	32	25	24	14	70	6	47	69	18	51		26
I.—ORDER 1. Miasmatic	5,582	5	2	71	27	24	8	12	42	131	13	80	58	62	27	32	25	24	14	70	6	47	68	17	49		26
1. Small-pox	10																								1		
2. Measles	229			1		4	2		2	14	3	4	4	2	1	2		1		4		1			4		10
3. Scarlatina	222			3		2	1		2	11		1		2	1							4	1		1		
4. Diphtheria	1,266		1	14	3					8		14	6	2	1	20	1	2		8		20	3		3		4
5. Quinsy	8																						1				
6. Croup	471	1		3	1					7		5			1	3	9		1	1		6	1	1			1
7. Whooping-cough	75					1				8		2	1	1	2				1	1		2	2				

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Cause of death.	State.	Counties.																									
		Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.
8. Typhoid fever	465	----	----	9	----	4	----	8	3	17	----	15	5	9	3	----	2	4	3	15	----	3	8	----	3	----	4
8. Typhus fever	12	----	----	1	----	----	----	----	1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
8. Typho-malarial fever	27	----	----	----	----	----	----	----	----	2	----	----	----	2	1	----	----	----	----	1	----	----	----	----	2	----	----
9. Erysipelas	199	----	----	1	----	----	----	----	3	3	1	4	3	4	2	----	3	1	----	4	----	----	3	----	2	----	----
10. Puerperal fever	26	----	----	----	----	----	----	1	----	----	----	1	----	1	----	1	----	----	----	----	----	1	----	----	1	----	----
11. Carbuncle	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
12. Influenza	1086	2	----	23	11	7	4	----	19	18	7	15	18	22	10	3	5	3	6	11	1	5	33	9	18	----	1
13. Dysentary	128	----	----	2	----	----	----	1	----	3	----	1	----	1	----	1	----	----	1	1	5	1	1	3	----	----	1
14. Diarrhea	325	----	----	5	3	----	1	----	2	12	----	1	2	----	----	1	2	1	----	2	----	2	1	----	1	----	2
15. Cholera infantum	591	1	1	8	----	4	----	2	6	18	1	10	6	12	3	----	3	4	1	15	----	2	7	3	8	----	1
16. Cholera morbus	31	----	----	----	1	----	----	----	----	2	----	1	----	----	----	1	----	----	----	----	----	----	----	----	----	----	----
16. Cholera	23	----	----	----	4	----	----	----	----	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1	----	----
17. Ague	140	----	----	----	2	1	----	----	2	4	----	4	1	2	2	----	----	----	----	1	----	----	2	----	----	----	----
18. Remittent fever	125	1	----	1	1	----	----	----	----	----	----	1	6	1	----	----	----	8	----	1	----	----	2	1	----	----	2
19. Rheumatism	120	----	----	----	1	----	----	----	2	----	1	1	6	1	----	----	----	----	1	5	----	----	3	----	4	----	----
20. Leprosy	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
I. ORDER 2. Enthetic	15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1	----	2	----	----
1. Syphilis	7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1	----	----
2. Stricture of urethra	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

3. Hydrophobia	2																					1				
4. Glanders																										
I. Order 3. Dietic	22														2								1			
1. Privation																										
2. Purpura																										
2. Rachitis																										
2. Scurvy																										
3. Delirium tremens (alcoholism)	7														1											
4. Intemperance	14														1								1			
5. Opium eating	1																									
I. Order 4. Parasitic	8																									
1. Thrush	5																									
2. Worms	3																									
3. Disease of scalp																										
Class II.—Constitutional	3,407	1	2	68	17	2	9	8	24	68	15	58	56	78	34	14	18	6	7	31	1	22	60	19	49	1	5
II. Order 1. Diathetic	996			26	2	2	2		6	14	5	14	20	24	9	3	1		2	12	1	2	17	1	20		
1. Gout	1																										
2. Anæmia	7												2								1						
2. Dropsy	421			15		1	2		1	3	3	9	6	7	3	1	1		2	4			7		9		
3. Cancer	533			11	1	1			4	11	2	5	12	17	6	1				8		2	8		11		
4. Noma (canker	18				1											1								1			
5. Mortification	17								1														2				
II. Order 2. Tubercular	2,410	1	2	42	15		7	8	18	54	10	44	36	54	25	11	17	6	5	19		20	43	18	29	1	5
1. Scrofula	38		1							1			1				1			1			1		1		
2. Consumption of bowels	32			2					1	1			2	3						1							

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Causes of death, 1890.	State.	Counties, 1890.																									
		Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.
3. Phthisis (consumption of lungs)	2,246	1	1	40	15		7	7	17	52	10	44	33	51	25	11	16	6	5	16		20	42	18	28	1	5
4. Hydrocephalus	20							1												1							
5. Marasmus	74																										
CLASS III.—LOCAL DISEASES	6,757	2		82	23	16	12	11	62	128	17	106	116	115	50	10	18	5	10	91	4	29	105	15	123		26
III. ORDER 1. Nervous system	2,082	1		24	8	7	2	1	21	30	2	45	42	35	24	3	7	1	3	21	1	9	32	4	40		3
1. Cephalitis	57								1	2		1	2	1									1		2		
2. Apoplexy	148			1	1							3			2				1	4		1	6		4		
3. Paralysis	572			11	2	2			7	4	2	13	27	18	5	1	1		2	7	1	1	14	3	21		
4. Insanity	30								1			1			2								2				
5. Chorea	3																										
6. Epilepsy	54			1								1	1	2	1					1		1	1		1		
7. Tetanus	10														1												
8. Convulsions	349			2	1	2		1	2	8		5	2	1	2		3	1				3	2	1			1
9. Brain disease	655	1		7	3	2			9	15		19	4	10	10	2	3			5		2	3		10		2
9. Dropsy of brain	21											1			1					2		1	1				
10. Spinal fever	52			2	1	1	2			1		1											1		1		
11. Spotted fever	1																										
12. Meningitis	45																										
13. Meningitis, cerebro spinal	5																										
14. Meningitis, spinal	74								1				6	3						2			1		1		

15. Spine, abscess of	4																										
16. Spine, inflammation of	2																										
17. Frightened																											
III. Order 2. Organs of circulation.	1,198	1		19	2	2	1		13	26	4	26	28	26	6	2	2		2	16	1	3	35	5	27		2
1. Pericarditis	72	1		1								9	2							2			4				
2. Aneurism	12						1			1															1		
3. Heart disease	1,114			18	2	2			13	25	4	17	26	26	6	2	2		2	14	1	3	31	5	26		2
4. Emboli																											
III. Order 3. Respiratory organs	1,756			21	8	3	2	6	11	43	6	15	20	24	4	2	5	2	3	27	1	9	15		18		14
1. Epistaxis	1																										
2. Laryngitis	3																										
3. Bronchitis	192					2	1	3	1	4		1	1	2			1						3		3		
4. Pleurisy	27										1		2														
5. Pneumonia	889			12	4			3	1	16	1	4	14	15		2	1	1	2	20		4	10		9		8
6. Asthma	74				2							1		1	1					1							
7. Lung disease	564			8	2	1	1		9	23	4	9	3	6	3		3	1	1	6	1	5	2		6		6
8. Catarrh	5			1																							
III. Order 4. Digestive organs	1,116			9	4	2	4	4	9	13	5	11	11	19	7	3	2	2	1	16		5	12	4	22		6
1. Gastritis	53						1	1	1					2	2					2				1	4		
2. Enteritis	315			3	1	1	3		2	7	2	6	4	5	3	2	2		1	6		3	3	2	11		3
3. Peritonitis	98							2												1			1		1		
4. Ascitis																											
5. Ulceration of intestines	9																			1							
6. Hernia	36				2				1				3												1		
7. Obstruction of bowels																											
8. Intussusception																											

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Causes of death, 1890.	State.	Counties, 1890.																									
		Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.
9. Stricture of intestines	12													1													
10. Fistula																											
11. Stomach diseases	358			2					1	6	2	3	1	3		1		1		2		2	4		3		3
12. Pancreas diseases																											
13. Hepatitis	6							1																	1		
14. Biliary calculus	1																	1									
14. Jaundice	29													1	1									1			
15. Liver disease	105			3	1				3			1	1	2						1			1		1		
16. Spleen disease	1																										
17. Bowel diseases, etc.	90			1		1					1	1	2	5	1					3			3				
18. Mouth disease																											
III.—ORDER 5. Urinary organs	425			6		1	1		5	10		6	12	6	5		2			8	1	3	5	2	13		
1. Nephritis	8														1												
2. Ischuria	1																										
3. Brights' disease of kidneys	219			4		1	1		5	4		3	6	3	3					6		2	3	1	4		
4. Diabetes	62									2		1	1		1									1	2		
5. Calculus gravel, etc.	10			2						3																	
6. Cystitis	12																			1		1					
7. Kidney disease	116									1		2	5	3			2			1	1		2		7		

III.—Order 6. Generative organs	3									1																	
1. Ovarian disease																											
1. Ovarian tumor	2									1																	
2. Disease of uterus	1																										
3. Hydrocele																											
III.—Order 7. Organs of locomotion	19									1				1									1				
1. Arthritis	5													1													
2. Joint diseases	14									1													1				
III.—Order 8. Integumentary system	161			3	1	1	2		41	4		3	3	4	4				1	3			5		3		1
1. Phlegmon	53				1		2		2	2					1					3							
2. Ulcers	6								1	1			1														
3. Skin disease	102			3		1			1	1		3	2	4	3				1				5		3		1
Class IV.—Developmental Diseases	3,149	2	1	30	8	8	6	4	17	67	7	49	35	49	31	10	20	9	7	27	2	28	23	4	47		8
IV.—Order 1. Dev. diseases of children	1,671	2	1	12	5	4	3	2	7	46	3	20	12	23	13	8	16	7	4	9		22	9	3	14		4
1. Stillborn	1,397	2		11	3	4	3	2	6	34	2	16	11	19	11	8	16	6	3	5		19	9	3	8		3
2. Infantile	127		1	1						4	1	4		4	1					2					6		
2. Premature birth	63								1				1		1				1	2							
3. Cyanosis	4																										
4. Spina Bifida	2									1																	
5. Other malformations																											
6. Teething	67				2					2								1				3					1
7. Injury at birth	1																										
IV.—Order 2. Dev. diseases of women	198			4		1	1		4	5	3	6	1	5				1	1	3	1	3	2		5		3
1. Dysmenorrhea																											
1. Turn of life	2																										

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Causes of Death, 1890.	State.	Counties.																									
		Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.
2. Childbirth	188	----	----	4	----	1	1	----	4	5	3	6	1	5	----	----	----	1	1	3	1	3	1	----	5	----	3
2. Abortion	8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1	----	----	----	----
2. Uterine hemorrhage	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IV.—ORDER 3. Dev. Dis. of old people	979	----	----	13	3	1	2	2	6	16	1	19	19	19	11	2	2	1	2	13	1	3	12	1	23	----	1
1. Old age	979	----	----	13	3	1	2	2	6	16	1	19	19	19	11	2	2	1	2	13	1	3	12	1	23	----	1
IV.—ORDER 4. Diseases of nutrition	299	----	----	1	----	2	----	----	----	----	----	4	3	2	7	----	2	----	----	2	----	----	----	----	5	----	----
1. Atrophy and debility	299	----	----	1	----	2	----	----	----	----	----	4	3	2	7	----	2	----	----	2	----	----	----	----	5	----	----
CLASS V.—VIOLENT DEATHS	1,075	3	3	22	8	1	3	2	4	49	1	16	12	23	9	5	6	4	2	5	1	8	12	7	12	1	11
V.—ORDER 1. Accident or negligence	585	2	3	13	8	1	3	1	4	29	1	8	2	12	5	4	5	4	----	2	1	6	7	7	10	1	3
1. Fractures and contusions	108	1	1	----	1	----	1	----	----	4	----	----	----	3	----	1	----	----	----	----	----	1	2	----	3	----	----
2. Wounds	50	1	----	1	1	----	----	----	1	2	----	----	1	----	3	----	1	----	----	1	----	1	----	----	----	----	----
3. Burns and scalds	80	----	1	2	----	----	1	----	----	3	----	1	----	----	----	----	----	2	----	1	1	1	----	----	2	----	----
4. Poison	42	----	----	----	1	----	----	----	1	2	----	1	1	----	----	----	----	----	----	----	----	----	2	----	----	----	----
5. Drowning	173	----	----	7	5	1	----	----	1	12	----	4	----	3	1	3	2	2	----	----	----	2	1	4	1	----	----
6. Suffocation	20	----	----	1	----	----	----	----	----	----	----	1	----	----	----	----	----	----	----	----	----	----	----	3	----	----	1
7. Otherwise	108	----	1	2	----	----	1	1	1	5	----	1	----	6	1	----	2	----	----	----	----	1	2	----	4	1	2
V.—ORDER 2. Homicide	14	----	----	----	----	----	----	----	----	2	----	----	----	----	1	----	----	----	----	----	----	----	----	----	----	----	----
1. Murder	14	----	----	----	----	----	----	----	----	2	----	----	----	----	1	----	----	----	----	----	----	----	----	----	----	----	----

V.—Order 4. Suicide	108	1	----	3	----	----	----	----	----	5	----	2	5	4	1	----	----	----	----	1	----	----	2	----	2	----	1
1. Wounds	8	----	----	----	----	----	----	----	----	----	----	----	----	1	----	----	----	----	----	----	----	----	----	----	----	----	----
2. Poison	11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1	----	----	----	----
3. Drowning	5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
4. Hanging	17	----	----	1	----	----	----	----	----	----	----	----	----	2	1	----	----	----	----	----	----	----	----	----	1	----	----
5. Otherwise and not specified	67	1	----	2	----	----	----	----	----	5	----	2	5	1	----	----	----	----	----	1	----	----	1	----	1	----	1
V.—Order 6. Violent deaths not included above	382	----	----	6	----	----	----	1	----	18	1	6	5	7	2	1	1	----	2	2	----	2	3	----	----	----	7
Unclassified	115	----	----	----	3	----	----	2	----	4	1	----	----	----	2	----	----	6	----	----	----	----	----	----	1	----	----
1. Head disease	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
2. Hemorrhage	36	----	----	----	----	----	----	2	----	----	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
3. Inflammation	69	----	----	----	2	----	----	----	----	4	----	----	----	----	2	----	----	6	----	----	----	----	----	----	1	----	----
4. Otherwise	7	----	----	----	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Causes not specified	1,513	2	----	26	27	7	3	4	9	46	5	34	7	16	15	6	10	13	7	10	2	17	18	5	18	1	9

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Causes of death, 1890.	Counties.																												
	G'd Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.	Menominee	Midland.
All causes	85	159	280	326	227	373	243	129	147	467	413	28	1314	45	16	201	68	447	130	2	18	324	241	2	488	119	147	312	73
Specified causes	77	149	267	295	186	357	229	115	132	434	385	27	1221	44	15	194	59	422	119	2	16	297	293	2	487	103	135	267	65
Causes not specified	8	10	13	31	41	16	14	14	15	33	28	1	93	1	1	7	9	25	11	..	2	27	48	....	1	16	12	45	8
CLASSES.																													
I.—Zymotic diseases	8	40	58	93	50	104	57	28	40	113	84	15	384	9	6	68	14	86	18	..	8	67	45	1	203	48	36	108	22
II.—Constitutional diseases	18	25	47	28	19	61	48	18	22	58	58	1	213	4	1	22	9	89	23	1	2	69	27	....	42	13	27	21	8
III.—Local diseases	38	48	120	100	64	142	80	33	40	178	167	10	383	19	4	66	19	175	61	..	3	119	54	1	120	25	41	62	22
IV.—Developmental diseases	11	25	30	51	42	37	41	27	22	67	54	....	170	6	1	20	15	49	15	..	1	28	44	....	71	12	19	42	6
V.—Violent deaths	1	11	10	22	12	11	3	8	7	27	22	1	59	6	3	13	2	21	2	1	2	12	23	....	49	4	9	32	7
Unclassified	1	....	2	1	....	2	....	1	1	2	....	....	12	..	..	5	....	2	....	..	....	2	....	....	....	2	4	2	..
ORDERS.																													
I.—1. Miasmatic diseases	7	40	58	92	50	103	57	78	40	111	82	15	381	9	6	68	14	84	18	..	8	65	45	1	203	48	35	106	22
2. Enthetic diseases	....	....	....	....	....	....	....	....	....	....	1	....	2	..	..	....	....	....	....	..	....	1	....	....	....	....	....	....	..
3. Dietic diseases	1	....	....	1	....	....	....	....	....	....	....	....	1	..	..	....	....	2	....	..	....	1	....	....	....	....	....	2	..
4. Parasitic diseases	....	....	....	....	....	1	....	....	....	2	1	....	....	..	..	....	....	....	....	..	....	....	....	....	....	....	1	....	..
II.—1. Diathetic diseases	3	12	23	10	4	15	9	1	8	22	15	....	58	1	1	2	....	39	11	..	1	19	7	....	7	7	9	6	..
2. Tubercular diseases	15	13	24	18	15	46	39	17	14	36	43	1	155	3	..	11	9	50	12	1	1	60	20	....	35	6	18	15	8

III.—1. Diseases of nervous system	24	15	43	24	13	55	26	10	13	55	65	4	115	6	..	20	5	52	16	..	1	30	24	....	36	50	17	19	9
2. Diseases of organs of circulation	3	7	26	14	4	31	21	6	3	35	40	1	82	..	1	9	2	36	19	..	1	24	2	....	10	5	9	3	4
3. Diseases of respiratory organs	5	11	23	41	20	24	13	9	11	46	27	2	99	7	3	16	9	39	10	..	....	26	17	1	47	7	6	16	6
4. Diseases of digestive organs	3	6	14	15	24	19	9	3	8	20	24	1	56	4	..	13	3	22	7	..	....	25	9	....	24	7	4	18	1
5. Diseases of urinary organs	2	9	12	3	3	11	9	4	2	15	8	2	21	1	..	6	....	19	8	..	1	9	2	....	2	1	4	3	2
6. Diseases of generative organs	....	....	....	....	....	....	....	....	....	....	....	....	....	..	..	....	....	1	....	..	....	....	....	....	....	....	....	....	..
7. Diseases of organs of locomotion	....	....	1	....	....	....	1	....	....	....	....	....	1	..	..	....	....	....	....	..	....	....	....	....	....	....	....	1	..
8. Diseases of integumentary system	1	....	1	3	....	2	1	1	3	2	3	....	9	1	..	2	....	6	1	..	....	5	....	....	1	....	1	2	..
IV.—1. Developmental diseases of children	3	12	6	32	20	12	7	18	10	21	11	....	79	6	1	8	11	10	6	..	....	10	28	....	57	7	2	33	4
2. Developmental diseases of women	3	4	1	2	6	....	6	1	2	4	3	....	12	..	..	1	2	3	2	..	....	3	4	....	5	1	4	3	1
3. Developmental diseases of old people	2	9	22	7	16	20	26	1	10	31	35	....	61	..	..	11	2	31	7	..	1	14	5	....	3	4	12	3	1
4. Diseases of nutrition	....	....	....	....	....	....	....	....	....	....	....	....	....	..	..	....	....	....	....	..	....	....	....	....	....	....	....	....	..
—1. Accident or negligence	1	....	4	9	5	6	2	6	5	13	13	1	25	..	1	5	2	13	1	1	1	8	16	....	6	2	5	10	2
2. Homicide	....	....	....	1	1	....	....	....	....	....	....	....	1	..	..	....	....	....	....	..	....	1	....	....	1	....	....	....	..
3. Suicide	....	1	....	....	....	3	....	1	....	2	4	....	11	..	..	1	....	5	....	..	1	1	2	....	....	1	2	1	1
4. Violent deaths (not included above)	....	8	6	12	6	2	1	1	2	12	5	....	22	6	2	6	....	3	1	..	....	2	5	....	42	1	2	21	4
CLASS I.—ZYMOTIC	8	40	58	93	50	104	57	28	40	113	84	15	384	9	6	68	14	86	18	..	8	67	45	1	203	48	36	108	22
I.—ORDER 1. Miasmatic	7	40	58	92	50	103	57	28	40	111	82	15	381	9	6	68	14	84	18	..	8	65	45	1	203	48	35	106	22
1. Small-pox	....	....	....	....	....	....	....	....	....	....	....	....	....	..	..	....	....	....	....	..	....	....	....	....	....	1	....	....	..
2. Measles	....	3	1	4	4	6	2	3	2	6	....	5	6	....	....	....	....	1	....	..	....	2	....	....	3	....	2	1	..
3. Scarlatina	....	1	1	5	4	2	1	....	6	1	....	....	6	..	1	5	1	5	2	..	....	2	3	....	9	1	2	1	..
4. Diphtheria	....	4	1	18	2	14	7	....	....	37	10	....	121	1	..	12	....	7	2	..	1	4	5	....	53	9	10	45	..
5. Quinsy	....	....	1	....	....	1	....	....	....	....	1	....	....	..	..	....	....	....	....	..	....	....	....	....	....	....	....	....	..
6. Croup	....	3	1	7	6	4	....	1	2	4	2	....	21	..	..	....	....	....	....	..	2	4	7	....	44	9	1	6	..
7. Whooping-cough	1	2	....	2	1	....	3	....	....	1	....	....	2	..	..	....	....	....	....	..	....	....	1	....	3	....	....	....	2

TABLE 78.—CONTINUED.—*Causes of Death, Classified.*

Causes of Death, 1890.	Grd Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.
	Counties.																												
8. Typhoid Fever		3	10	8	1	23	1	1	7	9	9	1	49	1		2	2	10	1			11	5		18	1	5	14	2
8. Typhus Fever				6											1														
8. Typho-malarial Fever					1						1					1						1				1			
9. Erysipelas	2	1	4	2	1	2	4	2	1	1	4	2	21			7	1	9	4			2	2		2	2	5	1	1
10. Puerperal Fever							1						1													3			
11. Carbuncle																													
12. Influenza	3	10	21	9	18	33	19	4	8	17	15	1	48	2	4	30	8	29	5		2	21	6		20	10	6	12	10
13. Dysentery				5			1	2	1	8	4		3					3	2			3	4					3	
14. Diarrhœa			2	23	3				1	4	9		13				1	4				11	3	1	30	3	1	10	1
15. Cholera Infantum	1	10	8	1	5	6	15	6	2	12	17	4	69	5		9		11			1	2	3		15	7	2	8	4
16. Cholera Morbus			1		1	2		3	1	1			1					1											
16. Cholera									1										1									2	
17. Ague			4			3	2	2	1		7		10									1	2						1
18. Remittent Fever			3	2	2	4	1	4	5	6	1	1	6			1		1			2	1	3			1		1	1
19. Rheumatism		3			1	3			2	4	2	1	4			1	1	3	1				1		6	1		2	
20. Leprosy																													
I.—ORDER 2. Enthetic											1		2									1							
1. Syphilis											1		1																
2. Stricture of Urethra																													
2. Stricture													1									1							

3. Hydrophobia																												
4. Glanders																												
I.—Order 3. Dietic	1			1									1					2				1					2	
1. Privation																												
1. Purpura																												
1. Rachitis																												
1. Scurvy																												
3. Deliriums Tremens (Alcoholism)				1														1				1						
4 Intemperance													1					1									2	
5. Opium Eating	1																											
I.—Order 4. Parasitic						1				2	1															1		
1. Thrush						1				2	1																	
2. Worms																										1		
3. Disease of Scalp																												
Class II.—Constitutional	18	25	47	28	19	61	48	18	22	58	58	1	213	4	1	22	9	89	23	1	2	69	27		42	13	27	21	8
II.—Order 1. Diathetic	3	12	23	10	4	15	9	1	8	22	15		58	1	1	11		39	11		1	19	7		7	7	9	6	
1. Gout																												
2. Anæmia						1					1		1															
2. Dropsy	2	4	14	6	1	6	7	1	3	4	3		24		1	4		13	3			10			3	3	6	3	
3. Cancer	1	6	9	4	3	8	2		5	16	10		32	1		7		26	7		1	9	6		3	3	3	2	
4. Noma (Canker)		1											1										1			1		1	
5. Mortification		1								2	1								1						1				
II.—Order 2. Tubercular	15	13	24	18	15	46	39	17	14	36	43	1	155	3		11	9	50	12	1	1	50	20		35	6	18	15	8
1. Scrofula						1		3					5				2	1											
2. Consumption of Bowels			4			1			1		1							3	1			3	1						

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Causes of death, 1890.	Counties, 1890.																													
	G'd Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.
3. Phthisis (consumption of lungs)	15	13	23	18	15	44	39	13	13	34	42	1	149	2	..	11	7	46	10	1	1	46	19	....	35	6	18	14	8
4. Hydrocephalus	....	....	....	....	....	....	....	1	....	2	....	....	1	..	..	....	....	....	....	..	....	1	....	....	....	....	....	1	..
5. Marasmus	....	....	....	....	....	....	....	....	....	....	....	....	....	1	..	....	....	....	1	..	....	....	....	....	....	....	....	....	..
CLASS III.—LOCAL DISEASES	38	48	120	100	64	142	80	33	40	178	167	10	383	19	4	66	19	175	61	..	3	119	54	1	120	25	41	62	22
III.—ORDER 1. Nervous system	24	15	43	24	13	55	26	10	13	55	65	4	115	6	..	20	5	52	16	..	1	30	24	....	36	5	17	19	9
1. Cephalitis	....	1	....	....	1	....	....	1	....	1	....	....	3	..	..	....	2	1	2	..	....	3	3	....	....	....	....	3	1
2. Apoplexy	4	....	4	....	2	6	2	....	5	5	10	....	8	2	..	2	....	5	....	..	....	3	1	....	....	....	2	2	..
3. Paralysis	7	9	19	8	....	22	10	1	....	20	11	....	28	..	..	10	....	26	7	..	....	11	1	....	4	2	2	....	3
4. Insanity	....	....	....	....	....	1	1	....	....	....	6	....	....	..	..	....	1	....	....	..	....	....	....	....	....	....	....	....	..
5. Chorea	....	1	....	....	....	....	....	....	....	....	....	....	....	..	..	....	....	....	....	..	....	....	....	....	....	....	....	....	..
6. Epilepsy	7	....	3	1	....	....	2	....	....	2	5	....	....	..	..	....	1	....	1	..	....	1	....	....	....	....	....	....	2
7. Tetanus	....	....	....	....	....	1	1	....	....	....	....	....	....	..	..	....	....	....	....	..	....	1	....	....	....	....	....	....	1
8. Convulsions	....	....	....	3	2	5	2	....	2	7	5	1	17	..	..	4	....	4	....	..	....	....	8	....	11	....	2	7	2
9. Brain disease	5	3	16	8	8	17	4	6	2	15	22	3	44	1	..	4	1	14	3	..	....	9	8	....	17	2	7	6	..
9. Dropsy of brain	....	....	....	....	....	....	....	....	1	....	....	....	1	..	..	....	....	1	1	..	....	....	....	....	....	1	....	1	..
10. Spinal fever	....	1	....	....	....	3	3	2	2	1	1	....	5	..	..	....	....	1	2	..	....	1	1	....	....	....	4	....	..
11. Spotted fever	....	....	....	....	....	....	....	....	....	....	....	....	....	..	..	....	....	....	....	..	....	....	....	....	....	....	....	....	..
12. Meningitis	1	....	1	3	....	....	....	....	....	....	3	....	2	2	..	....	....	....	....	..	....	....	1	....	....	....	....	....	..
13. Meningitis, cerebro-spinal	....	....	....	....	....	....	....	....	1	....	....	....	....	..	..	....	....	....	....	..	1	....	....	....	....	....	....	....	..
14. Meningitis, spinal	..	..	..	....	..	..	1	....	....	4	2	....	6	1		....	....	....	....	..	....	1	1	....	4	....	....	....	..

15. Spine, abscess of																														
16. Spine, inflammation of													1																	
17. Frightened				1																										
III.—Order 2. Organs of circulation	3	7	26	14	4	31	21	6	3	35	40	1	82		1	9	2	36	19		1	24	2		10	5	9	3	4
1. Pericarditis			2	1			3		1				1					1				2					1		
2. Aneurism			1							1	2								1										
3. Heart disease	3	7	23	13	4	31	19	6	2	34	38	1	81		1	9	2	35	18		1	22	2		10	5	8	3	4
4. Emboli																													
III. Order 3. Respiratory organs	5	11	23	41	20	24	13	9	11	46	27	2	99	7	3	16	9	39	10			26	17	1	47	7	6	16	6
1. Epistaxis																													
2. Laryngitis													2																1
3. Bronchitis		1		19		1			1	2	3		13	1			1	1	1			4	3		8	2		1	
4. Pleurisy	1		1			1			1		1		2			1	1								1				
5. Pneumonia	3	3	19	15	5	12	4	3	4	30	18		43	5		4	2	26	3			9	6		12	3	4	8	1
6. Asthma				2			2			1	2		3					2						1					
7. Lung disease	1	7	3	5	15	10	7	6	5	13	3	2	36	1	3	11	5	10	6			13	8		26	2	2	7	4
8. Catarrh																													
III.—Order 4. Digestive organs	3	6	14	15	24	19	9	3	8	20	24	1	56	4		13	3	22	7			25	9		24	7	4	18	1
1. Gastritis		1				1				2	1		3			1		2				1	1		3				
2. Enteritis			2	8	13	7	1	3	2	4	5	1	14	1		4	2	7	1			11	2		7	3	3	10	
3. Peritonitis			1	3		1			1	3	4		5	1		2		2				1			6			1	
4. Ascitis																													
5. Ulceration of intestines										1	1		1																1
6. Hernia			1				1		2		1		2					1								1			
7. Obstruction of bowels																													
8. Intussusception													2																

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Causes of death, 1890.	Counties, 1890.																												
	Gd. Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Manitou.	Mdrquette.	Mason.	Mecosta.	Menominee.	Midland.
9. Stricture of intestines													2																
10. Fistula																													
11. Stomach diseases	3	2	2	2	8	8	4		2	5	4		13	1			1	1	5			4	5		6	3	1	4	
12. Pancreas diseases																													
13. Hepatitis		1							1				1																
14. Biliary calculus																													
14. Jaundice		1		2			1			2						1						2			2			2	
15. Liver disease		1	5		1		1			1	4		10	1		4		5	1			5	1						
16. Spleen disease			1																										
17. Bowel diseases, etc.			2		2	2	1			2	4		5			1		4				1						1	
18. Mouth disease																													
III.—ORDER 5. Urinary organs	2	9	12	3	3	11	9	4	2	15	8	2	21	1		6		19	8		1	9	2		2	1	4	3	2
1. Nephritis						1	2																				1		
2. Ischuria																													
3. Bright's disease of kidneys	1	3	6	1	2	3	5	2	1	6	5	1	11	1		2		9	3		1	4	2		1	1	3	1	
4. Diabetes		4	3	2	1	5				3	2	1	3			1		4	1			2							1
5. Calculus gravel, etc.			1																						1				1
6. Cystitis		1					1			1			1															1	
7. Kidney disease	1	1	2			2	1	2	1	5	1		6			3		6	4			3						1	

III.—Order 6. Generative organs																		1											
1. Ovarian disease																													
1. Ovarian tumor																		1											
2. Disease of uterus																													
3. Hydrocele																													
III.—Order 7. Organs of locomotion			1				1						1															1	
1. Arthritis			1																										
2. Joint diseases							1						1															1	
III.—Order 8. Integumentary system	1		1	3		2	1	1	3	2	3		9	1		2		6	1			5			1		1	2	
1. Phlegmon	1			1		1	1	1	2	1	1		3	1		2		3											
2. Ulcers			1										1														1		
3. Skin disease				2		1			1	1	2		5					3	1			5			1			2	
Class IV.—Developmental Diseases	11	25	30	51	42	37	41	27	22	61	54		170	6	1	20	15	49	15		1	28	44		71	12	19	42	6
IV.—Order 1. Dev. diseases of children	3	12	6	32	20	12	7	18	10	21	11		79	6	1	8	11	10	6			10	28		57	7	2	33	4
1. Stillborn	3	10	4	19	10	9	6	15	8	14	10		66	5	1	8	6	7	4			8	20		43	5	1	31	3
2. Infantile		1	1	7	9	2	1	1	2	3			4				4		1				8		4			1	
2. Premature birth				1						4	1		6	1				3	1			2			9	1	1		
3. Cyanosis													1																
4. Spina bifida		1																											
5. Other malformations																													
6. Teething			1	5	1	1		2					2				1								1	1		1	1
7. Injury at birth																													
IV.—Order 2.—Dev. diseases of women	3	4	1	2	6		6	1	2	4	3		12			1	2	3	2			3	4		5	1	4	3	1
1. Dysmemorrhea																													
1. Turn of life																													

TABLE 77.—CONTINUED.—*Causes of death classified.*

Causes of death, 1890.	Counties.																												
	Gd. Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.
2. Childbirth	3	4	1	2	4	....	5	1	2	4	3	....	11	..	..	1	2	3	2	..	....	3	3	....	5	1	4	3	1
2. Abortion	....	....	....	....	1	....	1	....	....	....	....	....	1	..	..	....	....	....	....	..	....	....	1	..	....	....	....	....	..
2. Uterine hemorrhage	....	....	....	....	....	....	....	....	....	....	....	....	....	..	..	....	....	....	....	..	....	....	....	....	....	....	....	....	..
IV.—ORDER 3. Dev. Dis. of old people	2	9	22	7	16	20	26	1	10	31	35	....	61	..	..	11	2	31	7	..	1	14	5	....	3	4	12	3	1
1. Old age	2	9	22	7	16	20	26	1	10	31	35	....	61	..	..	11	2	31	7	..	1	14	5	....	3	4	12	3	1
IV.—ORDER 4. Diseases of nutrition	3	....	1	10	....	5	2	7	....	5	5	....	18	..	..	....	....	5	....	..	....	1	7	....	6	....	1	3	..
1. Atrophy and debility	3	....	1	10	....	5	2	7	....	5	5	....	18	..	..	....	....	5	....	..	....	1	7	....	6	....	1	3	..
CLASS V.—VIOLENT DEATHS	1	11	10	22	12	11	3	8	7	27	22	1	59	6	3	13	2	21	2	1	2	12	23	....	49	4	9	32	7
V.—ORDER 1. Accident or negligence	1	2	4	9	5	6	2	6	5	13	13	1	25	..	1	5	2	13	1	1	1	8	16	....	6	2	5	10	2
1. Fractures and contusions	....	....	1	2	....	....	....	2	....	4	4	1	12	..	..	1	....	....	....	..	....	1	1	....	....	1	....	1	..
2. Wounds	....	1	1	1	....	2	....	....	1	1	1	....	1	..	..	....	....	1	....	..	....	....	3	....	....	....	....	1	..
3. Burns	....	....	1	....	1	1	....	....	1	2	2	....	2	..	..	....	....	2	....	..	....	1	3	....	....	....	2	1	..
4. Poison	....	....	1	....	2	2	....	....	....	....	....	....	2	..	..	1	....	2	....	..	....	....	1	....	....	1	....	1	1
5. Drowning	1	1	....	3	2	....	2	4	2	4	3	....	4	..	1	2	....	5	1	..	1	4	5	....	5	....	1	2	1
6. Suffocation	....	....	....	1	....	....	....	....	....	....	....	....	....	..	..	....	....	2	....	..	....	....	....	....	....	....	....	1	..
7. Otherwise	....	....	....	2	....	1	....	....	1	2	3	....	4	..	..	1	2	1	....	1	....	2	3	....	1	....	2	3	..
V.—ORDER 3. Homicide	....	....	....	1	1	....	....	....	....	....	....	....	1	..	..	....	....	....	....	..	....	1	....	....	1	....	....	....	..
1. Murder	....	....	....	1	1	....	....	....	....	....	....	....	1	..	..	....	....	....	....	..	....	1	....	....	1	....	....	....	..

V.—Order 4. Suicide		1				3		1		2	4		11			1		5			1	1	2			1	2	1	1
1. Wounds													1										1						
2. Poison						2				1			1			1						1							
3. Drowning		1																					1				1		
4. Hanging						1					1		1					2											
5. Otherwise and not specified								1		1	3		8					3			1					1	1	1	
V.—Order 6. Violent deaths not included above		8	6	12	6	2	1	1	2	12	5		22	6	2	7		3	1			2	5		42	1	2	21	4
Unclassified	1		2	1		2		1	1	2			12			5		2				2			2		4	2	
1. Head disease								1					1															1	
2. Hemorrhage			2	1		1			1	1			5			2		1							1		1	1	
3. Inflammation						1				1			6			3		1				2			1		2		
4. Otherwise	1																										1		
ses not specified	8	10	13	31	41	16	14	14	15	33	28	1	93	1	1	7	9	25	11		2	27	48		1	16	12	45	8

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Causes of death, 1890.	Counties, 1890.																										
	Missaukee.	Monroe.	Montcalm.	Montmorency.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
All causes	54	274	236	5	436	120	394	101	34	27	127	5	32	330	27	10	1,032	229	44	209	449	262	250	314	378	5,505	73
Specified causes	4	8	218	4	409	108	377	97	33	25	118	3	27	313	9	9	973	202	42	186	394	258	232	303	342	5,238	70
Causes not specified	8	19	18	1	27	12	17	4	1	2	9	2	5	17	18	1	59	27	2	23	55	4	18	11	36	267	3
CLASSES.																											
I.—Zymotic diseases	18	57	67	4	138	46	69	30	12	6	35	1	12	93	2	2	273	45	9	50	111	50	61	74	82	1,493	28
II.—Constitutional diseases	10	71	35	----	66	19	70	18	4	2	15	----	3	52	1	1	147	45	8	40	65	54	43	61	72	844	14
III.—Local diseases	9	70	75	----	118	24	171	31	10	14	40	----	7	100	2	3	332	69	13	65	132	95	90	111	127	1,669	14
IV.—Developmental diseases	7	47	22	----	66	12	54	10	3	1	18	1	3	55	4	1	160	29	11	23	53	42	23	40	54	1,000	9
V.—Violent deaths	2	10	17	----	21	7	13	8	4	2	10	1	2	13	----	2	55	9	1	7	30	15	13	16	12	196	5
Unclassified	----	----	2	----	----	----	----	----	----	----	----	----	----	----	----	----	5	5	----	1	4	2	2	1	1	24	--
ORDERS.																											
I.—1. Miasmatic diseases	18	57	67	4	138	46	68	30	11	6	34	1	12	93	2	2	273	45	9	50	110	50	60	73	82	1,477	28
2. Enthetic diseases	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	8	--
3. Dietic diseases	----	----	----	----	----	----	1	----	1	----	----	----	----	----	----	----	----	----	----	----	1	----	----	1	----	7	--
4. Parasitic diseases	----	----	----	----	----	----	----	----	----	----	1	----	----	----	----	----	----	----	----	----	----	----	1	----	----	1	--
II.—1. Diathetic diseases	1	26	16	----	21	8	16	6	3	1	5	----	----	16	----	----	46	7	2	11	19	14	15	23	24	229	6
2. Tubercular diseases	9	45	19	----	45	11	54	12	1	1	10	----	3	36	1	1	101	28	6	29	46	40	28	38	48	615	8

III.—1. Diseases of nervous system	5	20	23	...	43	6	62	3	2	3	17	...	4	32	...	1	90	23	6	18	43	40	33	40	39	46	5
2. Diseases of organs of circulation	...	9	11	...	15	6	28	8	3	2	3	...	1	17	...	...	58	8	2	14	21	19	14	28	36	246	3
3. Diseases of respiratory organs	2	22	18	...	28	8	42	9	3	5	8	...	2	22	1	2	126	20	5	12	41	10	19	22	24	501	3
4. Diseases of digestive organs	2	14	11	...	25	2	18	6	2	2	8	...	...	17	1	...	37	9	...	13	19	18	12	14	12	358	2
5. Diseases of urinary organs	...	4	9	...	7	1	20	5	...	2	4	...	...	8	...	...	14	4	...	7	7	7	5	7	14	57	..
6. Diseases of generative organs	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	..
7. Diseases of organs of locomotion	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	1	...	...	...	...	9	..
8. Diseases of integumentary system	...	1	3	...	...	1	1	...	...	...	...	...	...	4	...	...	7	3	...	1	...	1	7	...	2	41	2
IV.—1. Developmental diseases of children	4	18	6	...	31	9	9	5	1	...	12	...	2	31	3	...	113	13	11	6	27	7	8	18	9	654	6
2. Developmental diseases of women	2	1	4	...	3	...	...	...	...	...	1	1	1	3	...	...	2	4	...	5	5	1	3	3	2	36	..
3. Developmental diseases of old people	1	24	11	...	12	3	40	4	2	1	5	...	...	16	1	1	30	8	...	11	19	29	12	17	34	188	3
4. Diseases of nutrition	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
V.—1. Accident or negligence	1	6	12	...	11	3	7	2	2	1	3	...	2	9	...	...	35	6	...	2	16	7	7	9	5	128	2
2. Homicide	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	1	...	1	...	...	...	1	...	1	..
3. Suicide	...	...	1	...	...	1	3	...	...	...	2	...	...	1	...	1	4	...	...	3	3	6	2	2	3	11	..
4. Violent deaths (not included above)	1	4	3	...	10	2	3	6	2	1	5	1	...	3	...	1	15	2	1	1	11	2	4	4	4	56	3
CLASS I.—ZYMOTIC	18	57	67	4	138	46	69	30	12	6	35	1	12	93	2	2	273	45	9	50	111	50	61	74	82	1,493	28
I.—ORDER 1. Miasmatic	18	57	67	4	138	46	68	30	11	6	34	1	12	93	2	2	273	45	9	50	110	50	60	73	82	1,477	28
1. Small-pox	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	...	..
2. Measles	6	3	8	...	5	3	3	1	...	...	1	...	...	...	...	...	5	1	1	2	...	...	1	2	5	72	..
3. Scarlatina	5	2	4	...	6	4	2	1	2	...	3	...	2	1	...	1	12	2	1	...	2	1	5	2	2	74	..
4. Diphtheria	...	4	12	1	64	15	10	9	2	...	4	...	3	45	...	...	75	3	1	4	23	4	7	6	10	487	4
5. Quinsy	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	2	..
6. Croup	3	1	1	...	8	3	5	2	1	...	3	...	1	3	...	...	18	3	1	5	7	...	...	1	4	235	1
7. Whooping-cough	...	...	1	...	...	3	2	...	...	...	1	...	...	...	...	...	7	2	...	...	...	2	...	4	1	11	2

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Cause of death, 1890.	Counties, 1890.																										
	Mineaukee.	Monroe.	Montcalm.	Montmorency.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
8. Typhoid fever	----	6	3	----	2	3	5	3	----	1	2	----	----	8	----	----	27	1	1	6	15	7	2	10	1	50	3
8. Typhus fever	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1	----	----	----	1	----	----	--
8. Typho-malarial fever	----	----	----	----	----	----	----	----	----	----	----	----	----	1	----	----	6	1	----	1	5	----	----	----	----	----	--
9. Erysipelas	----	8	2	----	6	----	3	----	----	----	4	----	----	4	----	----	15	1	----	2	5	3	4	1	2	21	1
10. Puerperal fever	----	1	----	----	1	----	----	----	----	----	1	----	----	2	----	----	1	----	----	1	----	----	----	----	----	8	--
11. Carbuncle	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2	----	----	----	----	1	----	----	----	----	--
12. Influenza	4	18	15	----	17	10	28	11	1	4	7	1	----	20	1	1	31	16	1	12	22	16	21	28	24	147	5
13. Dysentary	----	----	----	----	5	----	1	1	----	----	1	----	1	2	----	----	2	1	1	2	4	1	1	6	4	34	--
14. Diarrhea	----	4	----	1	6	----	----	----	----	----	----	----	----	2	1	----	14	3	----	2	2	2	3	1	5	121	--
15. Cholera infantum	----	5	13	2	13	2	4	----	4	1	5	----	5	1	----	----	42	2	2	8	10	10	8	8	2	96	9
16. Cholera morbus	----	1	----	----	----	----	----	----	----	----	1	----	----	----	----	----	3	----	----	----	----	----	----	2	----	8	--
16. Cholera	----	----	----	----	1	----	----	----	----	----	----	----	----	----	----	----	1	----	----	----	----	1	----	----	3	5	--
17. Ague	----	1	3	----	2	1	2	2	1	----	1	----	----	----	----	----	5	5	----	----	8	----	3	1	2	47	2
18. Remittent fever	----	----	1	----	----	1	----	----	----	----	----	----	----	3	----	----	3	3	----	1	4	----	2	----	5	29	1
19. Rheumatism	----	2	1	----	2	1	3	----	----	----	----	----	----	1	----	----	4	1	----	3	3	2	3	----	4	29	--
20. Leprosy	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	--
I. ORDER 2. Enthetic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	8	--
1. Syphilis	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	4	--
2. Stricture of uretha	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	--
2. Stricture	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2	--

4. Glanders																										
I. Order 3. Dietic							1		1											1			1		7	
1. Privation																										
2. Purpura																										
2. Rachitis																										
2. Scurvy																										
3. Delirium tremens (alcoholism)																				1					2	
4. Intemperance							1		1														1		5	
6. Opium eating																										
I. Order 4. Parasitic											1											1			1	
1. Thrush																									1	
2. Worms											1											1				
3. Disease of scalp																										
Class II.—Constitutional	10	71	35		66	19	70	18	4	2	15		3	52	1	1	147	45	8	45	65	54	43	61	72	844	14
II. Order 1. Diathetic	1	26	16		21	8	16	6	3	1	5			16			46	7	2	11	19	14	15	23	24	229	6
1. Gout																									1	
2. Anæmia																							1			
2. Dropsy		11	8		10	3	6	3	3		3			6			14	1	1	3	4	3	7	6	11	120	3
3. Cancer	1	13	8		9	5	10	3		1	2			10			31	4	1	8	14	9	8	16	13	101	2
4. Noma (canker)		1			2													2								4	1
5. Mortification		1															1				1	2				3	
II. Order 2. Tubercular	9	45	19		45	11	54	12	1	1	10		3	36	1	1	101	38	6	29	46	40	28	38	48	615	8
1. Scrofula	1						1							5						1	1			1	1	8	
2. Consumption of bowels	1		1														1	1				1	2	2		1	

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Causes of death, 1890.	Counties, 1890.																										
	Missaukee.	Monroe.	Montcalm.	Montmorency.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
3. Phthisis (consumption of lungs)	7	45	18		45	10	53	12	1	1	10		3	31	1	1	99	36	5	28	44	39	26	34	47	528	8
4. Hydrocephalus						1												1	1		1					8	
5. Marasmus																	1							1		70	
CLASS III.—LOCAL DISEASES	9	70	75		118	24	171	31	10	14	40		7	100	2	3	332	69	13	65	132	95	90	111	127	1,669	14
III. ORDER 1. Nervous system	5	20	23		43	6	62	3	2	3	17		4	32		1	90	23	6	18	43	40	33	40	39	4,156	5
1. Cephalitas			1		5									1			6	1			1			2		8	
2. Apoplexy	1	2	2		3		2				1		1	4			8			2	1	7	4		2	22	
3. Paralysis		2	7		5	2	25				2			5			19	2	1	6	11	24	16	21	19	62	
4. Insanity							3														2	1				9	
5. Chorea							1																			1	
6. Epilepsy							7							2			1	5						1		3	
7. Tetanus					2						1						1									1	
8. Convulsions	1	3	1		14	1	3	1			1			5			17	3	1	3	11	3	2	2	1	156	1
9. Brain disease	2	12	7		10	2	16	2	2		7		1	14		1	23	12	4	4	15	1	10	9	12	154	3
9. Dropsy of brain			1		1																1			1	1	4	
10. Spinal fever			4		1	1	2				1		1				1						1	1	2		
11. Spotted fever																								1			
12. Meningitis										3			1				2				1					24	1
13. Meningitis, cerebro spinal																						2				1	

15. Spine, abscess of																				1				1		1	
16. Spine, inflammation of																										1	
17. Frightened																											
III. Order 2. Organs of circulation		9	11		15	6	28	8	3	2	3		1	17			58	8	2	14	21	19	14	28	36	246	2
1. Pericarditis		2	3		2	1	5	2						2			5				2	5		3	4	6	
2. Aneurism														1												3	
3. Heart disease		7	8		13	5	23	6	3	2	3		1	14			53	8	2	14	19	14	14	25	32	237	2
4. Emboli																											
III. Order 3. Respiratory organs	2	22	18		28	8	42	9	3	5	8		2	22	1	2	126	20	5	12	41	10	19	22	24	501	3
1. Epistaxis					1																						
2. Laryngitis																											
3. Bronchitis					3		2		1	1	2			2			9	4	1	2	3				1	77	
4. Pleurisy	1	2					1	1													1				1	7	
5. Pneumonia		13	6		8	3	32	6		3	2		1	7			68	2	3	5	20	6	8	19	13	295	
6. Asthma							1							3			10	2		2	3		1			33	
7. Lung disease	1	7	12		16	5	6	2	2	1	4		1	10	1	2	39	12	1	3	13	4	10	3	9	86	3
8. Catarrh																					1					3	
III. Order 4. Digestive organs	2	14	11		25	2	18	6	2	2	8			17	1		37	9		13	19	18	12	14	12	358	2
1. Gastritis			1				3				2				1		2			1	1		1	1		10	
2. Enteritis		3	7		14		2	6	2		1			5			14	1		5	7	5	2	3	1	56	
3. Peritonitis		1			4		4													2				1	6	44	
4. Ascitis																											
5. Ulceration of intestines																					1		1	1		1	
6. Hernia	1				1	1	4							1			1						1	1		9	
7. Obstruction of bowels																											
8. Intussusception																											

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Causes of death, 1890.	Counties, 1890.																										
	Missaukee.	Monroe.	Montcalm.	Montmorency.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
9. Stricture of intestines							1													1						7	
10. Fistula																											
11. Stomach diseases	1	3	1		5		3				1			5			10	7		1	5	6	2	3	2	182	1
12. Pancreas diseases																											
13. Hepatitis																										1	
14. Biliary calculus																											
14. Jaundice		1															1					2	2			6	1
15. Liver disease		3	1		1					2	4			2			5			1		2	1	1	2	26	
16. Spleen disease																											
17. Bowel diseases, etc.		3	1			1	1							4			4	1		2	5	3	2	3	1	16	
18. Mouth disease																											
III.—ORDER 5. Urinary organs		4	9		7	1	20	5		2	4			8			14	4		7	7	7	5	7	14	57	
1. Nephritis								1									2										
2. Ischuria																											
3. Brights' disease of kidneys		2	7		4	1	12	1			4						7	1		5	4	5	2	4	5	34	
4. Diabetes			1				1										1				2	2	3	1	3	7	
5. Calculus gravel, etc.		1																							1		
6. Cystitis					1		1																			3	
7. Kidney disease		1	1		2		6	3		2				6			4	3		2	1			2	6	13	

III.—Order 6. Generative organs																										1	
1. Ovarian disease																											
1. Ovarian tumor																											
2. Disease of uterus																										1	
3. Hydrocele																											
III.—Order 7. Organs of locomotion																		2			1					9	
1. Arthritis																										3	
2. Joint diseases																		2			1					6	
III.—Order 8. Integumentary system		1	3			1	1							4			7	3		1		1	7		2	41	2
1. Phlegmon														3			3						2			15	1
2. Ulcers																											
3. Skin disease		1	3			1	1							1			4	3		1		1	5		2	26	1
Class IV.—Developmental Diseases	7	47	22		66	12	54	10	3	1	18	1	3	55	4	1	160	29	11	23	52	42	23	40	51	1,000	9
IV.—Order 1. Dev. diseases of children	4	18	6		31	9	9	5	1		12		2	31	3		113	13	11	6	27	7	8	18	9	654	6
1. Stillborn	4	17	5		26	9	7	3	1		9		2	26	3		86	11	10	5	27	6	7	14	9	584	6
2. Infantile			1		1		1	1						3			8	2		1		1		3		32	
2. Premature birth											1			1			13						1	1		10	
3. Cyanosis											2								1								
4. Spina Bifida																											
5. Other malformations																											
6. Teething		1			4		1	1									6									28	
7. Injury at birth														1													
IV.—Order 2. Dev. diseases of women	2	1	4		3						1	1	1	3			2	4		5	5	1	3	3	2	36	
1. Dysmemorrhea																											
1. Turn of life					1															1							

TABLE 77.—CONTINUED.—*Causes of death, classified.*

Cause of death, 1890.	Counties, 1890.																										
	Missaukee.	Monroe.	Montcalm.	Montmorency.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
2. Child-birth	2	1	3	...	2	...	...	...	...	...	1	1	1	2	...	...	2	4	...	4	5	1	3	3	2	35	...
2. Abortion	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...
2. Uterine hemorrhage	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV.—ORDER 3. Dev. dis. of old people	7	24	11	...	12	3	40	4	2	1	5	...	...	16	1	1	30	8	...	11	19	29	12	17	34	188	3
1. Old age	1	24	11	...	12	3	40	4	2	1	5	...	...	16	1	1	30	8	...	11	19	29	12	17	34	188	3
IV.—ORDER 4. Diseases of nutrition	...	4	1	...	20	...	5	1	...	...	...	...	...	5	...	...	15	4	...	1	1	5	...	2	6	122	...
1. Atrophy and debility	...	4	1	...	20	...	5	1	...	...	...	...	...	5	...	...	15	4	...	1	1	5	...	2	6	122	...
CLASS V.—VIOLENT DEATHS	2	10	17	...	21	7	13	8	4	2	10	1	2	13	...	2	55	9	1	7	30	15	13	16	12	196	5
V.—ORDER 1. Accident or negligence	1	6	12	...	11	3	7	2	2	1	3	...	2	9	...	...	35	6	...	2	16	7	7	9	5	128	2
1. Fractures and contusions	...	...	2	...	...	1	...	...	...	...	...	...	...	2	...	...	8	...	...	...	1	1	1	1	2	40	...
2. Wounds	...	...	2	...	...	...	2	...	...	...	...	...	...	...	...	...	4	...	...	...	...	1	...	2	1	11	...
3. Burns and scalds	...	3	3	...	2	2	...	...	...	...	1	...	1	1	...	...	7	3	...	1	2	1	1	4	...	14	...
4. Poison	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	4	...	...	...	...	1	1	...	...	11	1
5. Drowning	1	...	2	...	7	...	3	1	...	1	1	...	...	6	...	...	7	1	...	1	9	2	...	2	...	26	...
6. Suffocation	...	1	...	...	...	...	2	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	5	...
7. Otherwise	...	2	2	...	2	...	...	1	1	...	1	...	1	...	...	...	3	2	...	...	4	1	4	...	2	21	1
V.—ORDER 2. Homicide	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	1	...	1	...	...	...	1	...	1	...
1. Murder	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	1	...	1	...	...	...	1	...	1	...

V.—Order 4. Suicide	...	...	2	...	...	1	3	...	...	...	2	...	...	1	...	1	4	...	...	3	3	6	2	2	3	11	...
1. Wounds	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	2	...	1	...	...	...	...	...
2. Poison	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...
3. Drowning	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...
4. Hanging	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	1	...	...	1	...	2	...	1	...	...	...
5. Otherwise and not specified	...	...	2	...	...	1	1	...	...	...	1	...	...	...	...	...	3	...	...	...	3	1	...	1	3	11	...
V. Causes 6. Violent deaths not included above	1	4	3	...	10	2	3	6	2	1	5	1	...	3	...	1	15	2	1	1	11	2	4	4	4	56	3
Unclassified	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	5	5	...	1	4	2	2	1	1	34	...
1. Blood disease	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2. Hemorrhage	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	2	...	1	1	10	...
3. Inflammation	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	4	5	...	...	4	...	2	...	...	19	...
4. Otherwise	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	3	...
Causes not specified	8	10	18	1	27	12	17	4	1	2	9	2	5	17	18	1	59	27	2	23	55	4	18	1	36	267	3

TABLE 78.—*Exhibiting by sex, by months, by specified causes, and by ages in periods of years, the number of deaths returned for the year 1890, also by sex and specified causes, the number of deaths returned for each of the years, 1885–1890, inclusive. (Stillbirths included.)*

Sex.	Months, 1890.													Years.						Ages in periods of years,—1890.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1890.	1889.	1888.	1887.	1886.	1885.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Totals	1745	1599	1776	1807	1704	1633	1849	2032	1892	1808	1739	2027	31	21642	20315	21764	19482	18187	16646	7849	1096	621	782	907	918	812	813	683	707	672	701	925	948	942	856	1108	302
Males	961	871	920	995	904	901	1040	1152	993	1007	905	1139	13	11801	10984	11722	10563	9725	9025	4286	575	313	388	445	469	410	427	374	417	374	414	541	540	548	480	637	163
Females	780	726	850	807	739	729	803	873	887	800	824	882	17	9771	9297	10024	8877	8402	7569	3498	521	308	394	462	449	402	386	309	290	278	287	384	408	394	376	471	134
Unknown	4	2	6	5	7	3	6	7	12	1	10	6	1	70	34	18	42	60	52	65	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	5

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1890.												Years.						Causes of Death.	Ages in periods of years, 1890.																
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1890.	1889.	1888.	1887.	1886.	1885.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females					2		1	1		1	1	2		8	8	5	11	7	12	Abortion					2		3	1	1								1
Males											1			1				1	2	Abcess of back				1													
emales																	2		1	" " "																	
les						1	1							2	2	2		4	3	Abcess of bowels								1					1				
males					1					2				3	2		3	2		" " "									1		1						1
ales			1	3			2		1		1	1		9	3	10	7	1	1	Abcess of brain	3	1	1		1			2				1					
Females		1							2		1			4	3	6	4	3		" " "					2					1						1	
Males																1			1	Abcess of groin																	
Females																		1		" " "																	
Males															2		4			Abcess on head																	
Females															2		1			" " "																	
Females												1		1	2					Abcess on hip											1						
Males							1	1						2	1	2		1	2	Abcess of kidneys						1							1				
Females															1					" " "																	
Males						1								1					1	Abcess on leg			1														
Males					1							1		2						Abcess of neck	1				1												
Females								1						1	1					" " "									1									
Males															1		1			Abcess, pelvic																	
Females										1				1		1	3	2	1	" "										1							

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1890.												Years.						Causes of death.	Ages in periods of years, 1890.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1890.	1889.	1888.	1887.	1886.	1885.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males		1								1		1		3	3	3	3	5	6	Abscess in side						1	1					1					
Females															3	2	2	3	3	" " "																	
Males					1	1			1					3	1		1			Abscess of spine	1		1									1					
Females										1				1		1				" " "												1					
Males	1				1		1				1			4	4	5	4	1	1	Abscess of stomach				1		1				1				1			
Females		1		1				1						3		2	2	1		" " "	1					1				1							
Males	3	3				1	1	1	2	2		2		15	16	19	14	25	15	Abscess	4	1				2	2		1	2	1			1		1	
Females	1		5		3	1	1	3	3	4		2		23	17	22	15	20	17	"	2	1	1		2	6		3		1	3		2	1		1		
Females															1					Abuse																	
Males																1				Amputation of arm																	
Males										1	1	2		4	2	7		4	3	Amputation of leg			1			1		1	1								
Females						1								1		1				" " "							1										
Males															4			7		Amputation																	
Males	1		1				1		1		1			5		3	4		3	Anæmia	1								1			3					
Females						1			1					2	2		4	3	1	"	1												1					
Males				1										1		2	3		2	Aneurism											1						
Females																	1		1	"																	
Males															2	1		1		Angina pectoris																	
Females																2		1		" "																	
Males	8	2	7	9	6	8	5	4	10	9	11	11		90	92	97	76	98	68	Apoplexy	1						4	3	5	6	5	9	15	10	13	9	9	1
Females	5	4	5	1	4	10	3	7	6	4	6	3		58	55	47	59	65	48	"			1			2		1	4	5	7	8	9	5	6	4	4	2

Males	5	2	6	3	3	..	5	4	4	2	1	3	..	38	41	40	33	42	35
Females	4	2	2	5	6	2	..	2	3	6	2	2	..	36	18	25	26	24	27
Males	..	..	..	..	..	..	..	1	..	..	..	..	..	1	4	2	5	2	1
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	5	2	3
Males	5	2	3	1	3	2	3	3	3	2	4	5	..	36	35	41	33	20	38
Females	2	2	2	3	2	2	3	4	1	2	2	2	..	27	18	28	19	18	18
Males	..	2	..	2	1	1	2	1	..	..	..	..	..	9	9	9	3	3	3
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	1	1
Males	..	1	..	2	..	..	2	2	1	..	2	..	..	10	15	4	22	23	13
Females	..	..	..	..	..	..	1	..	..	..	..	1	..	2	5	1	2	..	2
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..
Males	2	..	1	1	2	1	..	..	2	..	3	1	..	13	13	16	11	10	9
Females	1	2	..	2	4	..	..	2	2	2	1	3	..	19	8	15	13	11	10
Males	4	..	2	1	2	2	1	8	7	4	5	4	..	40	31	28	36	24	14
Females	2	1	1	1	..	1	3	8	2	1	1	1	..	22	33	23	34	22	11
Males	9	7	15	11	14	12	19	23	15	18	10	25	..	178	184	219	188	168	169
Females	8	9	11	8	11	10	16	16	11	12	13	11	..	136	168	171	151	159	155
Unknown	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	2	..	..	1	..	3	3	6	3	3	5
Females	..	1	..	2	1	..	..	..	..	..	..	..	..	4	1	2	3	..	3
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	2	2	1	1
Females	..	..	..	..	1	..	..	..	1	..	..	..	..	2	2	1	..	1	1
Males	..	..	..	..	..	..	..	..	1	..	2	..	..	3	1	5	6	2	1
Females	..	..	..	..	..	..	..	..	1	2	1	..	..	4	1	3	1	2	2
Males	..	..	..	..	..	2	..	..	..	1	..	..	..	3	6	5	3	3	9
Females	..	..	..	..	..	..	..	..	..	..	1	..	..	1	3	3	..	1	3
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..

Asthma	3	1	..	..	..	..	..	1	4	2	2	5	1	8	7	1	1	2
"	3	..	..	..	..	2	2	1	1	2	1	4	6	5	1	7	1	..
Birth, injury at	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
" " "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Birth, premature	36	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
" "	27	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bladder, disease of	..	..	..	..	..	..	..	1	1	..	2	1	2	1	1	..	..	..
" " "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bladder inflammation	1	..	..	..	..	..	..	1	..	..	1	2	1	2	2	..	..	..
" "	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Bladder, rupture of	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bowels, consumption	4	..	..	1	..	1	..	..	1	1	1	1	1	1	1	..	..	..
" "	2	..	..	2	..	5	1	1	1	1	1	..	3	1	..	..	..	..
Bowels, disease of	22	..	1	..	..	..	2	2	2	2	..	..	1	..	1	3	1	1
" " "	10	2	1	..	1	1	..	1	..	..	..	1	1	2	..	1	1	..
Bowels, inflammation	64	15	10	12	11	8	8	8	4	8	7	5	6	6	2	1	2	1
" "	41	9	13	8	7	14	5	5	6	3	5	9	..	3	1	5	2	..
" "	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bowels, obstruction of	1	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..
" " "	2	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..
Bowels, rupture of	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
" " "	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..
Bowels, ulceration	1	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..
" "	..	..	..	..	2	..	..	..	1	..	..	..	..	..	1	..	..	..
Brain, concussion of	..	..	1	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..
" " "	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Brain, compression	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1890.												Years.						Causes of death.	Ages in periods of years, 1890.																			
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1890.	1889.	1888.	1887.	1886.	1885.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males	26	13	17	16	20	18	19	26	20	23	18	23	..	239	90	88	84	82	103	Brain, disease of	125	25	8	9	8	9	5	6	7	3	4	5	4	9	4	2	4	2
Females	16	9	23	14	21	23	11	27	26	10	18	19	..	217	83	64	92	64	72	" " "	126	19	11	5	7	5	6	6	2	2	3	5	10	4	2	3	1	..
Males	1	2	..	5	4	4	2	4	3	2	..	6	..	33	190	218	156	172	157	Brain, inflammation of	21	..	2	3	..	..	1	2	1	1	1	..	..	..	..	..	1	..
Females	3	1	2	3	2	2	5	2	..	..	1	3	..	24	151	187	163	160	139	" " "	15	4	..	1	..	1	..	..	..	..	..	1	1	..	..	1	..	..
Males	..	1	2	1	..	1	..	1	..	2	1	..	..	9	12	12	9	8	10	Brain, paralysis of	1	..	..	..	..	..	..	..	..	2	..	3	2	1	..	..	..
Females	2	1	..	..	..	..	..	..	..	..	..	..	..	3	4	6	10	9	10	" " "	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	1	..	..
Males	1	..	..	1	2	..	1	..	4	1	5	3	..	18	27	22	26	26	27	Brain, softening of	1	..	..	..	..	..	..	3	4	2	..	..	2	2	2	1	..	1
Females	1	..	..	..	2	1	1	..	..	1	1	1	1	9	12	15	12	4	9	" " "	..	..	..	..	..	1	..	..	1	1	..	..	1	2	..	2	1	..
Males	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	Breast disease	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	1	..	..	1	..	..	2	..	2	1	2	..	" "	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Males	1	..	..	..	..	..	..	..	..	..	..	..	..	1	2	4	2	..	..	Bronchitis capillary	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	1	..	..	..	1	..	..	1	..	1	..	..	4	..	8	2	2	1	" "	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	1	1	..	..	1	..	..	..	..	..	..	3	2	2	2	..	3	Bronchitis chronic	..	..	..	..	..	..	..	1	..	..	..	1	..	1	..	..	..	..
Females	1	..	..	..	..	..	..	..	..	..	1	..	..	2	4	2	1	2	1	" "	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	..
Males	16	5	5	9	10	9	7	6	5	6	7	8	..	93	64	98	69	56	63	Bronchitis	54	2	..	1	2	2	5	1	3	1	3	6	5	2	2	2	1	1
Females	13	2	16	10	5	11	3	4	6	5	5	10	..	90	50	97	49	39	46	"	56	5	1	1	..	..	1	2	1	3	2	3	3	3	3	3	..
Males	2	1	1	..	1	4	4	1	..	2	3	4	..	23	29	16	15	21	14	Burns	11	1	2	..	..	1	1	2	1	..	..	1	..	1	1	..	1	..
Females	..	3	2	3	2	1	3	5	..	2	7	1	..	29	38	19	12	15	21	"	10	9	1	4	1	1	1	1	..	..	..	..	..	..	1	1	..
Males	22	13	21	17	25	21	25	18	13	17	20	23	..	235	202	193	185	171	183	Cancer	2	3	2	..	..	5	7	11	17	20	19	17	35	38	23	28	7	1
Females	18	26	21	20	30	26	25	24	31	30	25	22	..	298	290	287	268	220	220	"	5	..	2	..	2	7	18	15	25	39	36	28	39	30	25	14	12	1
Males	..	1	..	..	..	..	..	..	1	2	1	..	..	5	8	9	8	9	7	Canker	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Females				1	1	1		2	4	2	1	1		13	17	12	20	16	8
Males					1									1		1			1
Females					1									1					
Males										1				1	1	1	2	3	3
Females											1	1		2	1		1	1	2
Males	21	15	15	37	26	36	41	35	27	31	32	23		349	372	324	331	303	255
Females	1		2	3	6	3	6	3	1	1	2	7		36	44	40	54	45	42
Males		2									1			3	22	17	11	13	6
Females			1						1					2	8	8	9	3	10
Females																1			
Males	1						1	1						3	2	2		1	
emales					1	1								2	1			1	
ales				1			2							3		2	1	1	3
males		1												1	2			1	1
emales	15	15	23	17	14	16	24	10	14	13	18	6		185	242	243	223	213	217
Males	2		2	1		1	2	4	1	2	1	2		18	15	11	27	10	17
Females	2		1	3	3	1	1		1	2		2		16	21	20	17	11	21
Males															1	1	1	1	1
Females										1				2	1	4	3		1
Males	9	1	1	6	6	16	92	111	64	23	11	6		346	390	410	364	348	199
Females	1	2	4	6	6	19	51	74	56	15	4	6	1	245	331	357	262	305	161
Unknown									1					1	1				
Males				1	1	2	7	7	2		1	2		23	33	26	30	20	24
Females							2	3	2			1		8	30	26	27	22	18
Males				1		1	2	8	2	1		1		16					
Females		1						2	4					7					
Males								1						1	1	1	1		1

Canker	12						1												
Capsule Renal					1														
" "						1													
Carbuncle																		1	
"					1							1							
Casualty	12	23	14	30	22	50	38	24	21	23	18	14	12	9	7	8	3	11	
"	9	1		2	4	2		1	1	1	1	1	2	4	3	1	2	1	
Catarrh	1								2										
"	1					1													
Cellulitis																			
Chest disease				1	1		1												
" "				1		1													
Chicken pox	2		1																
" "	1																		
Child birth				24	42	37	36	27	8	4								7	
Chills, congestive	5				1	3			1		2		2	1	2	1			
" "	4	1	1	1	1	1	2	1							3			1	
Choking																			
"	2																		
Cholera infantum	338	5	3																
" "	243	1																1	
" "	1																		
Cholera morbus	13	1	1				1	1			3	1			1	1			
" "	3			1		1			1	1	1								
Cholera	12				1	1											1	1	
"	5		1						1										
Chorea													1						

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1890.												Years.						Causes of death.	Ages in periods of years, 1890.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1890.	1889.	1888.	1887.	1886.	1885.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females					1							1		2	2	1	1	2	5	Chorea				1						1								
Males																		1	1	Closing pyloric orifice																	
Females																		1		" " "																	
Males		2	2	1			1		1	1		1		9	21	17	14	17	29	Cold	7			1		1											
Females	1					1	1		1	1		1		6	19	21	15	16	17	"	4		1		1												
Males															3	1	2	1	2	Colic, bilious																	
Females															1				2	" "																	
Males	4	6	9	6	9	8	22	10	8	10	5	10		107	14	24	15	6	12	Colic	97	4			1	1		1	1			1		1			
Females	4	6	10	9	6	5	12	5	7	6	7	11		88	12	13	13	3	5	"	78	2				1			2			1		1			3
Males			1		1									2			3	2	1	Constipation	1								1								
Females				1				1						2		2	2			"	1		1														
Males	81	85	105	110	84	85	75	102	66	88	71	108		1060	987	1103	985	950	935	Consumption	66	9	9	77	128	123	91	98	83	80	58	47	53	41	39	19	9	20
Females	110	94	94	108	105	83	83	92	96	85	103	91	3	1147	1150	1321	1141	1101	1028	"	57	15	35	144	173	165	118	108	79	49	43	35	34	28	23	17	6	19
Unknown																	1		1	"																	
Males	17	13	15	17	27	15	19	23	20	13	14	12		204	256	295	267	229	266	Convulsions	175	8	1	1	1	4	3			2		2		1	1			5
Females	8	14	12	12	9	15	11	16	11	14	10	13		145	196	221	207	200	186	"	127	1	1	2	3		2	2		1	1		3	1				1
Unknown															1			2		"																		
Females																	1			Cough																	
Males	5	2	3	8	2		1	2	1	2	7	5		38	19	46	68	57	28	Croup, membranous	26	11	1		1												
Females	2	2	5	1						3	4	1		18	27	44	49	47	18	" "	13	5															
Males	12	27	30	25	17	7	15	17	20	22	18	24		244	173	214	159	155	157	Croup	205	20	4	1													4

Females	17	14	16	15	7	7	9	11	10	18	19	28		171	184	170	123	141	134	"	140	24	5	1															1
Males												1		1	1	2		1	2	Cyanosis	1																		
Females			1			1					1			3	1			1		"	3																		
Males					1									1	1	1	4	9	5	Debility, nervous	1																		
Females															1	1	1	21	8	" "																			
Males	8	11	13	13	7	9	13	18	13	16	13	16	1	151	181	169	125	125	158	Debility	67		2		1	2	1	2	1	1	5	4	6	15	17	18	12	2
Females	8	8	9	10	8	11	13	17	9	9	9	11		122	153	149	114	93	121	"	64	1	2	1		1	2	2	1	1	2	3	9	6	6	7	13	1
Unknown																			3	"																			
Males	1			1			3	1		1				7	7	5	7	3	1	Delirium tremens						1	1		1	1	1				1	1	
Females															1	1			3	" "																			
Males	6	1	2	4	3	3	4	2	2	7	5	3		42	54	51	38	46	37	Diabetes	1	1	4	1	1	9	2	5	2	1	2	2	4	2	2	2	1	
Females	1	1	2	2	1	3	2	2	2	1	2	2		21	20	20	23	22	28	"		1	5				2	2	2	2	2	2		2				1
Males			1	2			1			1		4		9	23	15	12	11	15	Diarrhea, chronic							1					2	2	1	1	1	1	
Females			1			1		3		2		1		8	8	1	3	4	7	" "	1		1								1	1	2		1		1	
Males	4	3	3	2	3	9	31	63	31	12	5	5		171	211	191	204	186	151	Diarrhea	149	4	4	2			1	1		1		1	2		2		3	1
Females	2	1	5	2	5	10	33	43	24	8	2	2		137	207	164	195	177	88	"	118	2	1	2	1	1	1	1	1		1	1	3		3			1
Unknown															1					"																			
Males	37	55	54	59	49	41	32	74	52	50	58	61		623	430	370	474	553	503	Diphtheria	293	210	78	25	6	2	2	2		2		1						2
Females	51	51	60	53	46	40	40	46	62	62	71	61		643	418	347	461	564	551	"	285	211	90	21	9	5	8	3		2	1			1	1			6
Male																			1	Drinking cold water																			
Male							1					1		2		1	4	2	1	Dropsy of bowels														1			1	
Females																3	3	3		" "																			
Males	2	1	1	1	2	1	3	2	1	1				15	26	25	32	14	12	Dropsy of brain	8	2			1			1			1		2					
Females			3					2		1				6	10	14	25	20	15	" "	4		1					1										
Males																2	3	1	1	Dropsy of chest																			
Females											1			1			1		1	" "													1						
Males		4	3	3	5	5	2	3	4	5	1	3		38	23	37	54	29	38	Dropsy of heart				1	2	3	1		2	3	1	1	6	6	2	6	2	1

TABLE 78.—CONTINUED.—*Specified causes of death*

Sex.	Months, 1890.													Years.						Causes of death.	Ages in periods of years, 1890.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1890.	1889.	1888.	1887.	1886.	1885.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females	3	1	4		2	4	2	3	3	2	2	6		32	38	49	53	35	31	Dropsy of heart			1				1	1		3	2	1	7	4	4	5	3	
Males				1										1		1	1			Dropsy of kidneys	1																	
Males																2		2		Dropsy of liver																		
Females												1		1				1		" " "					1													
Males	25	15	13	14	15	8	15	13	21	24	16	15	1	195	172	222	170	138	147	Dropsy, unspecified	11	6	5	8	6	6	3	8	8	4	10	18	20	28	17	17	18	2
Females	17	20	18	19	12	16	22	13	26	17	23	23		226	165	240	168	195	183	" "	13	1	2	6	7	4	14	12	5	16	16	19	28	36	23	20	13	1
Males	5	8	3	13	12	26	28	22	6	8	6	14		151	120	147	145	129	125	Drowning	11	19	26	33	21	9	4	3	3	5	3	6	2	2	1		1	2
Females	1		1	4		5	2	2	3	2	1	1		22	10	14	18	15	7	"	6	3		2	4	1	1			1		1		1	1			1
Males	1				1		1	1	2	1	2			9	2	3		3	1	Dysentary, chronic							2	2	1	2	1		1					
Females			1			1	2							4	2			1		" "	1					1		1				1						
Males	2	4		2	2	4	7	16	19	9	4	1		70	85	65	98	80	51	Dysentary	47	1			2	2	2	3	1	1		1	4	3	2	1		
Females	2	1	1	3	2	1	6	10	12	5	1	1		45	69	85	85	74	52	"	31	1		1			2	2			1		1	2	1	1	2	
Unknown																	1			"																			
Males	1			2	1	2			4	2	1	1		14	11	16	22	8	11	Dyspepsia	1							2		2	1	3	2	2		1		
Females			4	1	2		1	3		3				14	11	8	6	5	7	"	1	1	1		1			4		1	1	2		1			1	
Males															1	2	2		2	Embolism																			
Females															1	4		2	2	"																			
Males	1	3		3	3	2	4	1	1	1	3	4		26	17	37	32	30	33	Epilepsy			1	2	2	3	5	2	3	3	1		1		1	2		
Females	1	2	2		4	4	1	3	3	3	1	4		28	23	28	22	19	17	"	2	1	1	2	3	1		5	2	3	2	1	3	1	2			
Males	3	2	2	3	3	2	1	3	1	3	4	3		30	25	46	37	38	35	Erysipelas	7		1	1		1	1	2	1		1		3	3	3		5	1
Females		3	2	1	2	1	1		1	1	2	2		16	27	30	33	25	33	"	4					1			2	3	1		1	1	3	1		

Males	1		1			1								3						Exhaustion	1												1	1			
Females			1		1				1			1		4						"								1	1	1								
Males		1	2								1			4	5	4	3	2	1	Exposure	1					1							1	1			
Females						1	1			1				3		2	2		1	"	3																
Males	3	2	2		2	4		1	5	3	1	2		24	19	28	24	17	25	Falling tree			4		2	2	1	2	3	2	1	1	2	1			3
Females																1	1			" "																		
Males	1		1					2		2		1		7	7	15	9	13	14	Fever, bilious			1	1			2		1				1			1	
Females					1		1			1	1			4	10	15	12	9	10	" "	1				1	1							1				
Males			1				1							2		3	6	3	1	Fever, catarrhal	1												1				
Females															2	2	2	3	4	" "																	
Males																			1	Fever, congestive																	
Females															2		1	1		" "																	
Males			1							1				2	3	2	2	4	1	Fever, gastric	1	1															
Females			5	1		3	1			1	1			12	7	11	6	2	5	" "	1					1	3			2	1			2		1		1
Males	1				3	1		1						6	8	7	7	10	5	Fever, intermittent	1	1	1		1		1							1				
Females									1	1	1	1		4	17	15	8	15	13	" "	2	1							1								
Males	3	2	1	5	2	1	5	6	5	9	3	1		43	66	66	55	64	42	Fever, Malarial	5	6	3	4	7	2	2	2		2	4		2	1		1	1	1
Females	3		5	3	1	1	3	4	4	2	6	3		35	67	75	54	56	41	" "	7	5	4	6	2	3	1	1			1	1	2					2
Unknown																			1	" "																	
Females															1	1	4	5	1	Fever, milk																	
Males															1	1	1	1	1	Fever, nervous																	
Females										1				1		3		2	1	" "											1						
Males				1		1								2	1	3	2	1	2	Fever, remittent				1			1										
Females			1				1						1	3	2		1	1		" "				1										1	1		
Males															2	8	4	4	6	Fever, rheumatic																	
Females		1	1				1			1	1			5	5	4	7	3	2	" "									1	1			1	1	1		
Males	1	1	1	1	2	4	2	3	1	2	1	2		21	40	36	43	33	42	Fever, spinal	19		2														

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1890.													Years.						Causes of death.	Ages in periods of years, 1890.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1890.	1889.	1888.	1887.	1886.	1885.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females	2	2	2	3	1	5	2	2	3	1	2	6	..	31	34	38	36	44	32	Fever, spinal	25	1	1	1	3	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2	Fever, spotted	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2	1	" "	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	13	6	10	13	17	12	7	32	46	47	29	31	..	263	372	353	439	262	210	Fever, typhoid	14	14	13	33	50	27	34	18	17	11	4	3	10	2	5	2	1	5
Females	10	5	6	8	11	15	7	17	39	40	27	17	..	202	265	285	331	236	176	" "	15	25	25	30	20	18	14	13	5	6	5	2	7	4	5	2	..	4
Unknown	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	" "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	2	2	..	3	1	..	1	3	2	3	..	1	..	18	24	16	25	15	5	Fever typho-malarial	4	2	..	2	4	3	..	..	..	1	..	..	..	..	2	..	..	..
Females	..	..	..	3	..	..	..	2	1	..	2	1	..	9	19	15	27	10	2	" "	1	2	2	..	1	2	..	..	..	..	..	..	..	..	..	..	..	1
Males	1	..	..	..	1	..	..	..	2	1	..	1	..	6	3	2	4	1	..	Fever, typhus	..	1	..	1	1	..	1	1	..	..	..	1	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	1	..	..	4	..	..	5	1	1	3	1	1	" "	1	..	2	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..
Males	4	2	2	2	6	3	2	12	5	4	4	4	..	50	44	47	36	36	20	Fever, unspecified	19	7	2	2	3	2	5	3	3	..	..	2	..	..	1	..	1	..
Females	1	1	2	4	5	2	7	4	7	4	5	3	..	45	35	95	42	49	38	" "	13	3	2	4	4	5	2	2	1	1	2	2	1	3	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	3	1	1	Fistula	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	2	..	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	Fracture of arm	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	Fracture of hip	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Females	..	2	..	1	..	..	1	..	..	..	..	..	..	4	3	4	..	..	..	" " "	..	..	..	1	..	..	..	..	..	2	..	..	..	..	..	..	1	..
Males	1	..	..	1	..	..	2	..	1	2	..	2	..	9	3	3	6	2	2	Fracture of leg	2	2	..	..	1	..	..	..	..	1	..	..	..	..	2	..	1	..
Females	..	..	..	..	..	1	..	..	..	..	..	..	..	1	4	3	1	3	..	" " "	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	4	5	1	3	Fracture of neck	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	1	" " "	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..

Females			2	1										3	1				1	" " "	2			1															
Males						1								1		2	4	2	1	Fracture of spine						1												
Females															1					" " "																			
Males											1				3	3	1	1		Fracture of ribs																		1	
Females																	3	2	3	" " "																			
Males					2			1		3				6						Fracture	3	1		1		1												
Females					1				1					2						"			1							1									
Males	2		1											3	6	1	1	4	6	Freezing									1	1			1					
Females			1											1		1		1		"						1													
Males																	1		1	Fright																			
Females																		1	1	"																			
Males															3	1	2	5	3	Gall stone																			
Females							1							1	3	4	5	2	6	" "								1											
Males	1	1		1	1	3			3	2	1	1		14	17	16	10	14	13	Gangrene				1							1	1		1	2	3	5	
Females			1			1						1		3	5	2	2	7	7	"													2	1					
Males				1										1	1		1	1	1	Glandular disease		1																	
Females																1	1		1	" "																			
Males							1							1						Goitre						1												
Females							1				1			2	1	1	1			"			1						1									
Females																	1			Gonorrhœa																		
Males						1								1	1				1	Gout														1				
Females																			1	"																		
Males				1		1		1		2	2	2		9	4	13	15	7	19	Gravel				1			1		1	1			2			3	
Females												1		1	3	1	1	4	2	"									1									
Males		2	2			2			3	8	9	4		30	14	16	11	17	13	Gun shot		2	2	5	5	3	3	3	4	2			1					
Females			1					1				1		3	1			1	2	" "			1	2														

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1890.													Years.						Causes of death.	Ages in periods of years, 1890.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1890.	1889.	1888.	1887.	1886.	1885.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males	1						1	1						3	6		4	1		Head disease	2								1									
Females								1				1		2	1	3	3	4		" "	1											1						
Males	53	40	52	55	53	51	48	38	41	59	46	79	1	606	533	488	421	375	389	Heart disease	33	4	10	13	15	17	17	29	24	42	32	38	76	83	76	47	44	6
Females	27	32	49	35	45	34	46	32	32	38	43	41		454	443	375	229	294	279	" "	28	5	5	11	17	16	23	27	25	27	30	36	42	45	51	36	28	7
Unknown																1				" "																		
Males		1			1	1				1	1			5	6	6	3	6	4	Heart enlargement									1		1	1			1	1		
Females					1		1	1			1			4	3	5	6	1	1	" "				1						1			1			1		
Males									2					2	4	2	5	1	1	Heart, fatty degén. of									2								
Females	1											1		2	3	3	1	2	2	" " " "				1														1
Males						1								1		5		2	1	Heart inflammation									1									
Females			1											1	4	5	2	1		" "									1									
Males			1		1	1		1	1	2				7	22	18	16	7	12	Heart neuralgia	1											1	2	2	1			
Females					1	1								2	12	16	18	10	15	" "												1				1		
Males																			1	Heart ossification																		
Females																		1		" "																		
Males																2				Heart, palpitation of																		
Females					1									1		2				" " "						1												
Males	1	1	2			1	2	1			2			10	19	15	19	12	10	Heart, paralysis of	2	1				1			1			1	2	1	1			
Females	1		1	1	3		3		2		4	3		18	12	20	14	13	15	" " "	1	1			1			2	5			1	2	1		3	1	
Males						1								1	3		3			Heart, rupture of														1				
Females															1					" " "																		

Males												1		1	3	3	5			Heart, valvular dis. of								1												
Females															1		5	3		" " " "																					
Males								1						1	1				2	Hemorrhage of bladder																		1		
Males	1				1	2	1							5	3	5	5	4		Hemorrhage of bowels	1					1									2		1		
Females		1		1	1		1	1				1		6	3	1	2	4	5	" " "	2			1	1		1					1							
Males								1			1	1		3	7	2	3	1	3	Hemorrhage of brain				1								1			1			
Females		1										1		2	5	1	3	2	2	" " "												1							1
Males	1		1	3	1	4	3	2	4		3	1		23	27	17	25	25	24	Hemorrhage of lungs		1		1	4	2	3	1	1	1	2	3	3	1				
Females			2	2	3	1	1	1	1	1	2	2		16	9	10	15	5	7	" " "	2		1		2	1	2		2	1				1	3	1		
Males		1												1						Hemorrhage of nose													1						
Females																			1	" " "																			
Males	1					1				1				3	3	3	3	2		Hemorrhage of stomach			1		1								1					
Females															7	1	2		1	" " "																			
Males			1		2	1			1					5	1					Hemorrhage umbilical	3												1	1				
Females												1		1				2		" "	1																		
Females																1	1	2	4	Hemorrhage uterine																			
Males	1	4		4	2	1						1		13	11	21	10	8	3	Hemorrhage	5		1			1		1	3	1		1						
Females		2	2				1	2	2	3	2	3		17	10	9	6	10	9	"	6		2		1	1	1	2		1	3	1						
Males	1	2	4	2	3	4	3	3		2	1	3		28	33	23	14	20	12	Hernia	1		1	3	2	1	2	4	1	2	3	3	1	3	1			
Females			1		1			1		2		3		8	11	14	12	12	13	"											3		2		1	1	1	
Males																	1	1		Hiccough																			
Females																		1		"																			
Males			1				1				1			3	2	4	4	2	4	Hip disease			1			1												1
Females				2		1				1				4	5	3	2	4	5	" "			2		1											1		
Males		2	1			3			1		1	1		9					1	Hydrocephalus	9																		
Females					1	1	1	1		2		1		7					1	"	7																		
Males			1								1			2			2		1	Hydrophobia	1					1													

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1890.													Years.						Causes of death.	Ages in periods of years, 1890.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1890.	1889.	1888.	1887.	1886.	1885.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females																1				Hydrophobia																		
Males					3	4				3		2		12	3	11	7	8	5	Inanition	11	1																
Females	1					2	1		1		1	1		7	6	8	2	11	8	"	7																	
Unknown																		1		"																		
Males	3	2		1	1			2	1			2		12	8	8	20	7	9	Indigestion	10						1									1		
Females		1			3		1	2	1	1	1	1		11	6	8	9	6	5	"	9					1					1							
Unknown																			1	Infanticide																		
Males	6	6	3	2	7	13	8	5	3	5	9	7		74	355	396	407	378	316	Infantile	74																	
Females	5	7	2	2	4	5	3	5	2	5	4	6		50	263	246	250	211	228	"	50																	
Unknown	1							1			1			3	3	1	1	6	4	"	3																	
Males	2	2	1	3	2	3	3	6	2		3	2		29	23	19	18	18	26	Inflammation	14		3		1	2	1		3		1	1	1			2		
Females	1	3	3	5	2	4	2	1	7	1	7	4		40	24	21	25	21	18	"	19	1	1	1		3	2	2	2	1	2	2	2		1	1		
Males	8	9	4	3	2	1	1	2	1	2		1		34	17	1	1	1	1	Influenza	8		1	1			2	2		3	2	3	1	2	5	2	2	
Females	12	6	1	4	2	1			1	1		3		31	12	1	1	2	1	"	12			1	4	2			1	2			1	1	2	1	4	
Males	1	1	2	1			2	1	1	3		2		14	13	12	10	14	13	Insanity						1		2	1		1	1	2	2	1		1	2
Females		1	2	1	2		1		1	3	1	4		16	13	14	23	11	12	"				1	3			1			3	1	2	3		1	1	
Males										1				1						Insomnia																1		
Females																		1		"																		
Males	2	1	3		2	1			1	2	1	1		14	6	13	7	16	10	Intemperance					1		3	1	2	2	3	1	1				
Females															4		1	4	2	"																		
Males	1		2	3	1	3	1		1	3	1	4		19	17	9	11	12	18	Jaundice	5				1	1	1		1	1	1	3	1	3		3		

Females			3		1	2		1	2			1		10	14	12	12	3	17	Jaundice	3					1			1	2			1				2	
Males			1				2		1			1		5				1		Joint disease	3								1				1					
Females								1						1		1				" "				1														
Males	12	11	11	16	13	12	17	14	13	12	12	19		162	163	159	155	155	151	Kidney, Bright's	2	2	5	4	3	4	8	6	4	7	12	17	19	10	24	17	16	2
Females	3	4	4	5	1	4	6	5	9	4	8	4		57	66	51		59	47	" "	2		2	1	2	5	11	2	1	4	2	7	5	5	5	2	1	1
Males	5	2	3	6	5	4	9	12	5	7	13	7		78	78	84	77	57	56	Kidney disease	2	2	1	1	1	2	2		3	1	4	4	8	9	7	15	14	2
Females	2	4	1			3		2	1		2	2	1	18	21	19	20	19	25	" "	2	1		2	1	1		3	2				2		1	1		2
Males			1				1		1	1	1	1		6	10	24	14	30	12	Kidneys, inflammation	3														2		1	
Females			1				1							2	3	7	7	10	5	" "			1	1														
Males	83	111	71	65	39	32	25	23	13	27	19	33		541	79	1	1			La Grippe	140	15	16	20	29	25	19	22	12	22	16	20	31	28	30	31	58	4
Females	71	84	78	61	36	26	18	28	21	16	18	19	2	478	68					" "	120	17	16	17	21	20	10	22	13	10	18	13	29	37	20	36	41	8
Males			1					1						2		1		2	3	Laryngitis											2							
Females												1		1	1	1		1		"								1										
Males						3	1	3				1		8	4	4	2	4	6	Lightning						2		3		2		1					
Females				1										1		2		2	1	"										1								
Males				1										1	1	3	2	6	5	Liver, abscess of								1									
Females		1		1		1			1					4	2	3	3	5	2	" "	1							1							2			
Males	1		1								1			3	4	4	3	2	1	Liver, Cirrhosis											1		1		1		
Females	1				1									2	1	3	1		1	" "									1					1				
Males	5	5	1	4	2	2	4	7	3	2	4	4		43	57	50	48	40	39	Liver disease	2				1	1	1	3	1	3	5	6	7	5	4	3	1	
Females	2	2	6	4	3	4	2	2	2	6	1	2		36	31	37	38	29	32	" "	1	1	1	1	2	1	2	3	1	5	5	1	4	3	1		4	
Males		1			1					1	1	1		5	11	13	4	4	7	Liver, enlargement	2									1					1	1		
Females					1	3	1			1		1		7	5	12	7		9	" "	2				1						1				1		2	
Males	1			1						1				3	5	8	9	3	2	Liver, inflammation	1	1													1			
Females							1			1		1		3	1	5	5	5	4	" "						1						1		1			
Males						1								1	1	4	1	1	1	Liver, ulceration															1			
Females			1											1	2	2	3			" "															1			

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1890.												Years.						Causes of death.	Ages in periods of years, 1890.																
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1890.	1889.	1888.	1887.	1886.	1885.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males					1		1	1						3	3	4	4	7		Lungs, abcess of					1									1	1		
Females	1		1		2	1	1							6	3	5		7	1	" " "	1		1		1						1						2
Males	28	29	24	31	20	19	17	18	19	21	31	45	2	304	112	135	145	127	88	Lung disease	149	14	4	9	11	9	9	10	9	15	11	10	12	12	9	6	4	1
Females	24	17	19	36	18	10	14	21	15	23	25	26	1	249	88	95	84	91	77	" "	124	9	6	7	8	6	6	8	10	9	4	8	8	14	7	8	4	3
Unknown											1	1		2						" "	2																	
Males																		1	1	Lung, paralysis of																		
Females																			1	" " "																		
Males	1		1		3		1	1	1	1	1	1		11						Malaria	5	1			1			1		1	1		1					
Females		1		1	2			1	1	1	1			8			1			"	1	2		1	2									1		1		
Males															4	6	4	6	5	Malformation																		
Females															8	5	7	2	2	"																		
Females				1										1	1					Malpractice																		1
Males	10	3	4	2	5	1	4		2	4		1		36						Marasmus	34	1										1						
Females	3	2	6		5	2	1	5	2	7	3	2		38						"	38																	
Males	5	5	14	22	21	19	19	1	5	2	4	3		120	51	192	163	64	19	Measles	87	14	5	3	4	2	2	2										
Females	5	10	9	14	21	16	13	7	1	4	2	7		109	53	221	122	65	19	"	82	8	4	4	1	3	1	1	3	1	1							
Unknown																1				"																		
Males					1	2		1						4	1	5	3	3	2	Meningitis, cerebro-spinal	1	2						1										
Females											1			1	2	8	2	4	4	" "	1																	
Males								1			1	1		3	2					Meningitis, cerebral	3																	
Females	1													1						" "		1																

Males	2	2	3	6	3	6	1	4	..	2	2	6	..	37	26	37	38	32	31	Meningitis, spinal	24	6	1	2	..	1	..	..	..	1	..	..	..	..	..	1	..	1
Females	3	4	2	3	2	1	4	3	2	7	2	4	..	37	36	26	39	38	29	" "	21	7	3	..	..	1	1	..	..	..	1	2	1	..	..	..	..	..
Males	..	..	..	..	1	..	..	1	..	1	..	..	..	3	2	3	1	3	1	Meningitis, tubercular	2	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	1	..	..	..	..	..	..	..	..	..	..	1	2	4	3	3	3	" "	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Unknown	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	" "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	3	3	2	2	7	..	2	..	1	1	2	..	..	23	11	29	9	15	17	Meningitis	11	5	..	2	1	..	..	..	..	1	..	2	..	..	..	..	1
Females	1	3	2	4	..	2	3	..	2	2	1	2	..	22	11	13	11	13	14	"	11	7	..	2	1	1	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	Menses	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	1	..	Milk leg (phleg. dolens.)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	Mortification	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	2	2	4	3	Mouth disease	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	5	1	2	6	" "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	1	..	Mumps	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	2	..	"	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	1	2	2	..	..	1	1	1	..	1	3	..	12	24	13	22	27	25	Murder	1	..	..	..	1	2	4 2	..	..	2	1	2	..	..	..	..	..	1
Females	..	..	..	1	..	..	1	..	..	..	..	..	..	2	8	1	7	3	3	"	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	4	Necrosis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	1	..	..	..	..	2	..	..	..	1	1	..	..	5	..	..	..	1	1	"	1	2	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	..	..	1	Neglect	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
Females	..	1	..	..	..	..	..	..	..	..	1	1	..	3	2	1	..	..	1	"	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	1	..	1	..	..	..	..	..	..	..	..	..	..	2	..	..	..	1	2	Nerve disease	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	3	1	5	" "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	1	1	..	..	..	1	1	1	..	1	1	..	7	13	16	10	1	..	Nervous prostration	..	..	..	..	..	..	..	1	..	..	..	..	1	..	4	..	1
Females	1	1	1	2	3	..	1	1	3	2	3	..	..	18	..	18	16	10	1	" "	1	..	..	..	2	..	1	..	..	1	2	1	4	1	..	3	2	..
Males	..	..	..	1	..	..	..	..	..	..	..	1	..	2	8	8	2	6	3	Neuralgia	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..
Females	..	1	..	1	..	..	..	..	..	..	2	1	..	5	8	6	10	8	4	"	..	..	..	..	..	..	1	1	..	..	1	..	..	1	..	..	1	..

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1890.													Years.						Causes of death.	Ages in periods of years, 1890.																
	January.	February	March	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1890.	1889.	1888.	1887.	1886.	1885.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males	48	37	46	32	38	38	47	41	33	51	39	55	..	510	512	586	468	427	404	Old age	..	..	..	..	..	..	..	..	..	..	1	13	19	50	101	318	8
Females	33	17	33	40	49	32	38	47	41	41	43	43	53	1	470	453	588	449	428	366	" "	..	..	..	..	..	..	..	..	2	5	25	65	109	254	9	..
Unknown	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	" "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	1	1	1	..	Opium eating	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	" "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	1	..	..	..	..	..	..	..	..	1	..	2	10	8	7	2	12	Ovarian tumor	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	1	1	..	..	1	..	..	..	..	3	1	3	3	3	9	Overdose medicine	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	..	1
Females	..	1	..	..	..	..	..	..	..	..	..	1	..	2	1	1	1	4	..	" "	..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	1	..	..	..	..	..	..	..	1	1	1	..	1	..	Overwork	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	Pancreas	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	..	..	..	..	Paralysis, general	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	..	..	..	" "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	20	18	24	22	28	29	26	23	24	30	28	43	..	315	298	290	251	290	202	Paralysis	4	2	1	2	1	3	10	10	10	10	17	23	34	50	56	65	29	3
Females	24	21	18	10	20	14	19	26	23	23	22	..	1	243	235	262	199	195	196	"	3	..	2	3	4	5	3	6	8	9	15	21	25	42	37	33	24	3
Unknown	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	3	9	4	5	1	4	5	4	6	6	1	2	..	50	20	21	13	13	10	Peritonitis	2	2	1	2	6	4	6	6	4	7	2	1	3	1	..	..	2	1
Females	..	..	5	8	4	9	4	5	5	2	3	3	..	48	30	25	22	19	12	"	4	2	3	2	1	5	11	2	7	1	2	1	1	3	..	..	2	1
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Pharyngitis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	Phlebitis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	1	..	Piles	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	1	1	3	3	1	1	1	..	..	..	1	2	..	14	12	23	16	11	11	Pleurisy	1	1	..	..	2	..	..	1	1	2	1	..	2	1	1	1	..	..
Females	..	4	3	..	1	2	..	1	1	..	1	..	..	13	13	23	9	9	5	"	..	..	..	..	3	1	1	1	..	1	1	..	..	1	1	2	1
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	5	1	3	1	Pleuro, pneumonia	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	1	..	1	1	..	..	..	..	..	..	1	..	..	4	8	1	1	2	3	" "	..	1	..	1	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..
Males	..	6	1	1	..	1	1	..	..	2	2	4	..	18	49	59	54	39	35	Pneumonia, typhoid	1	2	1	3	..	2	..	1	1	..	1	..	..	..	4	2	..	..
Females	1	4	1	1	1	1	..	..	1	..	1	4	..	15	24	42	26	28	31	" "	4	..	..	..	1	1	2	1	..	2	..	2	..	..	..	1	..	1
Males	68	35	59	49	39	26	19	22	18	35	47	53	..	490	606	564	522	448	420	Pneumonia	104	12	7	18	20	32	24	25	30	34	30	29	22	28	29	20	20	6
Females	71	34	46	40	33	12	14	8	20	8	31	45	..	362	442	336	362	335	312	"	83	11	7	17	17	21	28	21	10	13	15	13	17	22	28	16	18	5
Unknown	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	1	1	2	1	3	2	2	1	2	2	2	2	..	21	19	12	19	10	19	Poison	4	1	..	..	1	1	2	6	..	..	..	3	2	1	..	..	..	..
Females	2	1	..	..	1	1	1	2	1	1	4	2	..	16	9	9	12	8	7	"	3	1	..	1	2	1	2	..	3	1	..	..	1	1	..	..	..	..
Males	..	..	..	..	..	..	1	..	..	..	..	..	..	1	1	1	1	1	..	Prostate, disease of	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Females	..	..	..	..	..	..	1	..	1	1	..	..	..	3	3	1	1	2	1	Puerperal convulsions	..	..	..	1	1	..	1	..	..	..	..	..	..	..	..	..	..	..
Females	2	4	6	1	1	2	2	3	1	1	2	1	..	26	..	..	..	..	..	Puerperal fever	..	..	..	2	6	11	2	4	1	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	2	1	..	..	1	..	..	..	4	8	6	6	10	7	Quinsy	1	..	1	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	1	..	..	..	..	1	1	..	3	4	9	3	7	2	"	..	1	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	2	1	Rachitis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	..	..	1	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	5	5	5	8	8	6	7	5	4	2	5	3	..	63	101	106	82	67	68	Railroad accident	1	2	3	5	6	14	8	7	3	2	3	2	3	..	..	..	2	2
Females	..	..	1	..	1	..	2	1	1	1	..	2	..	9	9	7	8	5	8	" "	..	..	1	1	1	..	..	1	2	1	..	2	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	Rheumatism of brain	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	3	..	..	..	1	..	..	2	..	1	..	..	7	27	24	26	19	22	Rheumatism of heart	1	..	..	..	..	..	1	1	..	1	..	2	1	..	..	..	..	..
Females	..	..	1	..	2	1	1	1	1	1	..	1	..	9	11	15	9	12	12	" " "	2	..	..	..	2	..	..	1	..	1	..	..	1	2	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	1	..	1	..	2	9	8	9	9	9	Rheumatism, inflammatory	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..
Females	1	1	..	..	1	..	..	..	..	..	..	..	..	3	5	7	12	13	5	" "	..	..	1	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..

TABLE 78.—CONTINUED. Specified causes of death

Sex.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1880.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Causes of death
Males						2								2	2	2	2	4	1	Rheumatism, sciatic
Females											1			1	1	1	2	1	2	" "
Males	6		2	5	7	4	9	4	4	7	7	8		63	61	53	56	49	29	Rheumatism
Females	1	3	6	2	2	1	1	3	1	4	3	1		28	31	32	28	31	23	"
Males	2		1			1		1				1		6	6	10	7	8	6	Rupture of blood vessel
Females		1					2			1	1			5	6	9	8	6	3	" " " "
Males																	1			Scald head
Males	2	1	2	4			2	3	2	3	3	2		24	16	15	13	9	23	Scalding
Females			1								1	2		4	10	5	9	13	9	"
Males	5	3	9	6	7	8	13	6	13	12	8	8	1	102	110	170	152	161	196	Scarlet fever
Females	11	7	6	21	8	8	10	8	7	6	10	17	1	120	130	153	166	158	109	" "
Males	1		1		2	3	4	2	1	1	2	2		19	13	14	15	18	10	Scrofula
Females	3	1			1	2	1	1	2		2	1		14	12	7	10	11	13	"
Males	4	2	7	10	5	8	9	5	6	14	5	8		83	108	77	58	58	68	Septicaemia
Females	7	5	8	4	8	6	8	3	5	1	7	8		70	82	80	68	67	61	"
Males			1	1	1	8			2	1	1			10	3	7	1	5	4	Skin disease
Females	1	1									1			3	6	2	3	3	4	" "
Males	2		1			1		1						5		2	3		5	Small pox
Females						1								1				1	3	" "
Males																			2	Snake bite
Females															1		1	1	2	" "

Ages in periods of years [illegible]

Males		1								1				2		1		1		Spina bifida	2																			
Females															1	2	1	3	2	" "																					
Males		4	6	4	5	6	6	10	8	5	4	3		61	52	59	51	62	42	Spine disease	36	4	2	1	3	1	2			2	3	1	4	1	1			
Females		2	2	3	5	6	4	8	6	4	2	3		45	70	54	38	64	42	" "	22	8		1	2	1	1	4	2		3	1			1			
Males	1							1						2	1				1	Spine inflammation	1	1																	
Females															1		2	2		" "																			
Males						1				1	1			3	1		2		2	Spine, injury of					1											1		1
Females	1													1	1					" " "															1			
Males		1												1			2		2	Spine, paralysis of				1														
Females							1							1		1	2			" " "											1							
Males				1										1	3	2	1	5	1	Spleen, disease of				1														
Females															2	1		3		" " "																			
Males							1		1					2				1	1	Starvation														1				1
Females						1								1		1	1			"										1									
Males	70	59	61	70	61	61	59	60	62	54	59	80	1	757	692	809	503	500	606	Still-born	757																		
Females	50	47	44	46	44	47	54	41	52	54	50	56	2	587	483	534	359	366	372	" "	587																		
Unknown	3	1	5	4	6	3	4	5	11	1	7	2		53	27	15	35	43	30	" "	53																		
Males	3	2	2	2	3	3	4	2	6		2	3		32	26	27	16	16	15	Stomach disease	11				1			1		2	3	2	3	2	1	2		
Females	2	3	3		1	2	2	1	5	2	2	4		28	12	17	16	15	14	" "	7	2		1	1	1	1	2	2		1		2	2	2	1	1		
Males	2	1	2		2	1	1	2	2	1		1		15	15	24	14	19	18	Stomach inflammation	7	1	1								1		2		1	1	1		
Females		2	1		1	2		1	1	2		2		12	24	18	21	18	26	" "	1				1	1			2	3	1		1		1				
Males							1							1	4	3	5	2		Stomach, neuralgia of															1				
Females		1			1									2	1	8	2	7	2	" " "															1				1
Males															1	2	1	1	2	Stomach paralysis																			
Females															1	1	2			" "																			
Males															1		2			Stomach, rupture of																			
Females																	1	1		" " "																			

TABLE 78.—CONTINUED.—*Specified causes of death.*

Sex.	Months, 1890.													Years.						Causes of Death.	Ages in Periods of Years, 1890.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1890.	1889.	1888.	1887.	1886.	1885.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males		1	1	1	2	1	2	4	2	3	2			19	9	14	11	3	6	Stomach, ulceration of							2			1	1	1	6	2	4	1	1	
Females		1		2		1	2				1			7	8	7	7	6	3	" " "			1			1	1		1					2	1			
Males																	1	1		Stone in bladder																		
Males		1		1	2				1					5	7	6	4	6	4	Strangulation	2		1		1								1					
Females	1				1					1	1			4	7	7	4	4	3	"	2													1				1
Males								1						1	1		2	4	1	Stricture of intestines								1										
Females															1		1			" "																		
Males																		1		" œsophagus																		
Females															1					" "																		
Males				1		2			1					4				1	2	"										1		1			2			
Females			1				1							2						"													2					
Males				1	3						2	1		7	10	14	6	9	6	Suffocation	4					1		1			1						
Females												1		1	5	5	7	6	7	"	1																	
Unknown					1									1						"	1																	
Males	6	8	2	9	8	4	16	6	4	5	9	8		90	78	82	75	64	78	Suicide				2	6	2	7	10	8	11	11	8	8	6	5	4	1	1
Females	1			2	3	3	1	1	3	3		1		18	16	19	30	18	12	"				2	2	2		2	2	2	2	2	1		1			
Unknown																			1	"																		
Males						3	2	3			1	1		10	10	11	19	5	9	Sunstroke	1	1				1		1					2	1		1	2	
Females							1	1						2	1	2	5	1	1	"	2																	
Males	2			1	1			1			1			6	5	2	3	4	2	Surgical operation							1		2		2	1					
Females			1	1		1			1	1				5	2	2	2	4	2	" "						2			1				1					1

Males																		1			Syncope																		
Females	1													1		2					"									1										
Males			1		1		1		2					5	3	8	1	6	8		Syphilis	1					2						1			1			
Females		1										1		2	2	6	3	3	8		"			1				1											
Males															2		1				Tape worm																		
Females															1		1				"																			
Males	3	3	2	1	1	2	5	3	4	2	1	1		28	38	41	36	40	32		Teething	28																		
Females	1	2	3	1	2	2	7	3	5	4	4	4	1	39	44	48	45	35	17		"	39																		
Males	2	1			1			1		2	1	1		9	5	6	5	2	3		Tetanus (locked jaw)	1	2			1			1	1		1			2				
Females						1								1	3	1	2	1			" "					1													
Males	1			1		1	1	3	2		2	1		12	6	14	16	10	11		Throat disease	4	1		1	1		2	1				1		1				
Females		2	1	1	6		1		1		1	1		14	3	9	9	12	7		" "	9		1				2		1	1								
Males															1	1	3	1			" inflammation																		
Females															1	1	1				" "																		
Males																	1		1		" paralysis																		
Females						1		1						2				1	1		" "					1					1								
Males																3					Throat, putrid sore																		
Females															1	3					" "																		
Males						1		1						2	1	2	1	1	2		Thrush	1															1		
Females	2						1							3	4	1	2	4			"	1											1		1				
Males																			2		Trichinasis																		
Females				1										1	1						"											1							
Males				1			1		1					3	2	1		5	3		Tumor in bowels		1				1			1								
Females			1		1			1	1	1	1	1		7	3	4	4	1	8		" "		1					1			1	1	1	1	1			
Males					1			2						3	2	1	2	1			" on brain							1			1			1				
Females			1						1		1			3	1	3	1	1	2		" "		1	1				1										
Males									1					1	1	4		1	2		" of liver							1										

TABLE 78.—CONCLUDED.—*Specified causes of death.*

Sex.	Months, 1890.													Years.						Causes of death.	Ages in periods of years, 1890.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1890.	1889.	1888.	1887.	1886.	1885.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Females															3	1	1	1	1	Tumor of liver																		
Females												1		1	2		1	1		Tumor in side							1											
Females				1										1						Tumor on head								1										
Males					1	1			1	1			1	5	5	5	3	3	3	Tumor in stomach												2	1	1		1	
Females				2	2	1	1					1		7	7	6	9	5	2	" " "									1			1	4				1	
Males											1			1		1	2		1	Tumor on throat			1															
Females																		1		" " "																		
Males	2		1	1	2	3	2	5		2		2		20	18	23	14	13	21	Tumor unspecified	2	1			2			2		1		4	3	2	1	1	1	
Females	1	3	7	8	6	6	10	5	4	9	4	6		69	46	49	48	47	46	" "	6	1	2	1	2	5	5	2	9	5	7	6	6	5	4	8		
Females				1								1		2	8	7	8	10	5	Turn of life									2									
Males																	1			Ulcer on neck																		
Males	1									1				2	8	6	7	5	6	Ulcers unspecified														1	1			
Females						1			1			2		4	3	2	6	5	1	" "								1		1					2		
Males	62	58	57	61	55	59	55	68	91	65	72	90	4	797	630	647	628	572	495	Unknown	500	13	16	11	13	12	6	11	15	14	17	25	20	29	24	12	19	40
Females	49	47	50	51	53	55	53	68	73	74	56	73	2	704	603	577	616	461	452	"	424	23	12	15	18	15	12	20	14	11	15	12	16	30	17	11	12	27
Unknown		1	1	1			2				1	2	1	9			5	7	2	"	4																	5
Males		1	1											2	1	3	2		4	Uræmia												1	1					
Females				1		1	1							3	3	1	1	1	2	"	1							1						1				
Males																3	1	1	1	Urin'ary organs, disease of																		
Females																			1	" " " "																		

Females															2	2	1	9	3	Uterine tumor																						
Females																		1		Uterus, abscess of																						
Females	1													1	8	8	12	7	4	Uterus, disease of					1																
Females															2	8	7	5	4	Uterus, inflammation of																						
Males															1					Vacination																						
Males																		1	1	Vomiting																						
Females																	3	1		"																						
Males	2	4	3	3	6	1	3	3	4	7		2		38	65	69	51	82	57	Whooping-cough	37	1																				
Females	4	3	2	1	5	5	2	3	3	3	3	3		37	75	105	59	102	81	" "	36	1																				
Unknown																		1		" "																						
Males	1						1							2	1	4		4	1	Worms	2																					
Females															3	1	4	3		"																						
Males	2	2	2	1		3	1	2		2	1	1		17	4	4	11	6	5	Wounds				2	1	1	1	1		2	1	5		1				2			

UNUSUAL CAUSES OF DEATH.

The deaths for 1890 that were compiled as "Casualty" are given in Table 79. It will be seen that 385 deaths were so compiled. For 255 of these deaths no cause other than "accidental" was given. The number of deaths for this class is considerably less than it was for 1889, when 416 were returned.

TABLE 79.—*Deaths in Michigan in 1890 compiled as "Casualty."*

Casualty—Causes as Returned.	No.	Casualty—Causes as Returned.	No.
Total number tabulated as Casualty in Table 78	385	Fall	22
		Falling rock	1
Accidental unclassified	255	Falling building	3
Bee stings	1	Fall of Machine wheel	1
Burn from pipe	1	Fall of window	1
Bursting of gun	1	Frightened to death	1
Crushed by a scaffold	1	Hurt by a door	1
Crushed by a hay press	1	Killed in a mine	26
Explosion of dynamite	2	Killed in a mill	6
Explosion of boiler	2	Killed in lumber camp	4
Explosion of gasoline	2	Killed by a horse	16
Explosion of kerosene	1	Killed by a mowing machine	1
Explosion	2	Killed by logs	1
Electric shock	2	Killed by a cow	1
Fall from wagon	4	Killed by swallowing a nail	1
Fall from bridge	2	Run over by a wagon	2
Fall from scaffold	1	Runaway	6
Fall from building	3	Smothered in a silo	1
Falling down shaft	2	Thrown from carriage	6

STATISTICS CONCERNING SUICIDE.

Table 80 gives the statistics concerning suicide for several years. For 1890, 108 persons are reported as taking their own lives. This is the highest number for any year of the table.

It will be noticed that only one person of African blood is numbered in the list, and that the farmers are much more inclined to self destruction than any other class of people. The nativity, means used, and certain comparisons relating to deaths by suicide can be seen by the different divisions of this table.

TABLE 80.—*Certain facts concerning persons returned as having died by suicide in Michigan during the years 1876–1890.*

Years.	Number.	Months of Death.													Sex.			Col'r.	Condition.			
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Totals.	Males.	Females.	White.	Married.	Single.	Widowed.	Unknown.
Totals	1,202	65	52	76	110	115	115	105	119	99	108	112	117	6	1,302	931	270	1,202	724	318	111	49
1876	54	3	1	3	7	7	8	2	4	5	6	5	3	.....	54	43	11	54	35	12	3	4
1877	66	2	5	7	4	7	5	6	7	4	2	7	10	.....	66	46	20	66	38	23	2	3
1878	63	5	2	5	5	5	9	5	7	5	6	5	4	.....	63	40	23	*63	41	16	4	2
1879	59	3	2	4	7	3	8	5	7	5	4	4	7	.....	59	46	13	59	35	19	3	2
1880	65	4	3	6	8	9	6	3	4	7	2	6	6	1	65	50	15	65	38	20	4	3
1881	57	1	5	3	3	4	4	7	9	7	4	6	4	.....	57	42	15	57	34	11	9	3
1882	62	2	3	4	6	8	7	2	7	5	7	4	6	1	62	44	18	62	32	24	3	3
1883	91	5	1	7	9	5	8	11	9	4	6	16	10	.....	91	69	22	91	53	23	12	3
1884	104	4	5	7	8	6	16	8	8	14	10	10	8	.....	104	84	20	104	71	28	4	1
1885	91	4	4	3	7	7	9	9	11	4	14	10	8	1	†91	78	12	91	55	19	13	4
1886	82	7	2	4	6	13	5	4	11	9	7	5	9	.....	82	64	18	82	46	20	11	5
1887	105	3	4	10	12	11	5	10	12	10	13	6	9	.....	105	75	30	105	63	28	10	4
1888	101	6	4	3	10	13	11	9	7	9	11	8	8	2	101	82	19	101	54	31	12	4
1889	94	9	3	3	7	6	7	7	9	4	8	11	16	1	94	78	16	94	59	19	14	2
1890	108	7	8	7	11	11	7	17	7	7	8	9	9	.....	108	90	18	108	70	25	7	6

* Mulatto. † Sex unknown.

TABLE 80.—CONTINUED.—*Suicidal deaths.*

Occupations.	No.	Occupations.	No.	Occupations.	No.
Agents	10	Farmers' wives	5	Physicians	7
Architects	1	Gardeners	2	Photographer	1
Bakers	2	Grain dealers	1	Policeman	1
Bankers	2	Harnessmakers	2	Printers	4
Barbers	3	Hatters	1	Prostitutes	9
Blacksmiths	7	Hotel keepers	6	Sailors	5
Bookkeepers	13	Housekeepers	103	Salesmen	3
Brewers	5	Housewives	30	Saloon keepers	23
Brickmakers	3	Housework	3	Seamstresses	1
Brick masons	1	Insurance agents	3	Servants	27
Business men	4	Laborers	189	Ship carpenters	1
Butchers	7	Lawyers	6	Shoemakers	14
Cabinetmakers	3	Lumbermen	4	Soldiers	3
Carriage trimmers	1	Machinists	5	Stavemakers	1
Carpenters	30	Manicure	1	Students	5
Cigarmakers	5	Masons	9	Tailors	8
Clerks	29	Mechanics	14	Tanners	3
Conductors	1	Merchants	22	Teachers	5
Contractors	1	Millers	3	Teamsters	5
Coopers	5	Milliners	1	Tinners	2
Cutters	1	Minors	5	Unemployed	47
Dentists	1	Ministers	1	Unknown	138
Domestics	7	Mill owners	1	Upholsterers	1
Draymen	5	Miscellaneous	11	Waiters	1
Druggists	5	Musicians	4	Weavers	3
Engineers	5	Painters	3		
Farmers	388	Peddlers	4		
Total					1,307

TABLE 80.—CONTINUED.—*Suicidal deaths.*

Nativity.	No.	Nativity.	No.	Nativity.	No.
Austria	2	Kentucky	1	Poland	3
Bohemia	1	Maine	3	Prussia	11
Canada	85	Massachusetts	7	Rhode Island	1
Colorado	1	Michigan	300	Russia	1
Connecticut	6	Minnesota	1	Scotland	15
Delaware	1	Netherlands	3	Sweden	11
Denmark	2	New Hampshire	3	Switzerland	3
England	66	New Jersey	8	Texas	1
France	6	New York	220	United States	2
Germany	245	North Carolina	1	Unknown	101
Holland	17	Norway	1	Vermont	15
Illinois	3	Nova Scotia	2	Virginia	2
Indiana	11	Ohio	66	Wisconsin	9
Ireland	36	Pennsylvania	31	Zealand	2
Italy	1				
Total					1,007

Means used.	No.	Means used.	No.	Means used.	No.
Burning	1	Insanity	1	Starving	1
Cutting throat	26	Poison	186	Strangulation	2
Drowning	68	Run over by cars	2	Unknown	712
Dynamite	1	Severing artery	3	Wounds	8
Hanging	178	Shooting	118		
Total					1,307

PRINCIPAL CAUSES OF DEATH.

In Table 81 are given 15 of the principal causes of death for 1890. As usual consumption leads by quite a considerable number. The diseases are arranged in order of greatest number first, and a glance at the table will show the per cent of each to all causes.

TABLE 81.—*Mortality in Michigan from fifteen principal causes, as returned for the year 1890.*

Order.	Specified causes and conditions, 1890.	Number of deaths.				Per cent from each cause to deaths from all causes.		
		Totals.	Males.	Females.	Unk.	Totals.	Males.	Females.
1	Consumption	2,207	1,060	1,147	.....	10.20	8.98	11.73
2	Stillborn	1,397	757	587	53	6.45	6.41	6.00
3	Diphtheria	1,266	623	643	.....	5.85	5.27	6.58
4	Heart disease	1,060	606	454	.....	4.90	5.13	4.64
5	Old age	980	510	470	.....	4.52	4.32	4.81
6	Pneumonia	852	490	362	.....	3.93	4.15	3.70
7	Apoplexy and paralysis	656	405	251	.....	3.03	3.43	2.56
8	Cholera infantum	591	346	245	.....	2.73	2.93	2.50
9	Lung disease	555	304	249	2	2.56	2.56	2.54
10	Cancer	533	235	298	.....	2.46	1.99	3.05
11	Croup	471	282	189	.....	2.17	2.38	1.93
12	Typhoid fever	465	263	202	.....	2.15	2.22	2.06
13	Dropsy	421	195	226	.....	1.94	1.65	2.31
14	Convulsions	349	204	145	.....	1.61	1.72	1.48
15	Bowels, inflammation	315	178	136	.....	1.46	1.50	1.39
	Totals	12,118	6,458	5,604	55	55.76	54.64	57.26
	All causes	21,642	11,801	9,771	70	100.00	100.00	100.00

MORTALITY FROM TEN PROMINENT CAUSES IN 1890.

Ten prominent causes of death for 1890 are considered in Tables 82 and 83. As usual cancer and typhoid fever are the leading causes of death for all ages, while croup diphtheria and whooping-cough caused most deaths for those aged under five years The fatality of the diseases for the time of the year, age of decedents, and per cent deaths from the different causes are given in these tables. The diseases are al further considered in relation to meteorological conditions.

TABLE 82.—*Deaths from ten specified causes returned for the year 1890, exhibiting the number of each sex, total number in each month and at different periods of age.*

Sex, months and ages.	Causes of death, 1890.									
	Cancer.	Cephalitis.	Croup.[a]	Diarrhea.	Diphtheria.	Dysentery.[b]	Measles.	Scarlet fever.	Typhoid fever.	Whooping-cough.
Sex.										
Totals	533	57	471	325	1,266	128	229	222	465	75
Males	235	33	282	180	623	79	120	102	263	38
Females	298	24	189	145	643	49	109	120	202	37
Unknown	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------
Months.										
January	40	4	36	6	88	5	10	19	28	6
February	39	3	45	4	106	5	15	10	11	7
March	42	2	54	10	114	2	23	15	16	5
April	37	8	49	6	112	5	36	27	21	4
May	55	6	26	8	95	5	42	15	28	11
June	47	6	14	20	81	6	35	16	27	6
July	50	7	25	65	72	16	32	23	14	5
August	42	6	30	109	120	27	8	14	49	6
September	44	3	41	55	114	33	6	20	85	7
October	47	2	45	23	112	15	6	18	87	10
November	45	1	48	7	129	7	6	18	56	3
December	45	9	58	12	122	2	10	25	48	5
Unknown	-------	-------	-------	-------	1	-------	-------	2	-------	-------
Av. month	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------
Ages.										
Under 5	7	36	383	268	578	79	169	137	-------	73
5 to 10	3	4	70	6	421	2	22	65	-------	2
10 to 15	4	2	10	6	168	-------	9	12	-------	-------
15 to 20	-------	4	1	4	46	1	7	4	-------	-------
20 to 25	2	-------	1	1	15	2	5	1	-------	-------
25 to 30	12	1	-------	1	7	3	5	-------	-------	-------
30 to 35	25	1	-------	3	10	6	3	1	-------	-------
35 to 40	26	2	-------	2	5	8	3	1	-------	-------
40 to 45	42	1	-------	1	-------	2	3	-------	-------	-------
45 to 50	59	1	1	1	4	3	1	-------	-------	-------
50 to 55	55	1	-------	2	1	2	1	-------	-------	-------
55 to 60	45	1	-------	5	1	2	-------	-------	-------	-------
60 to 65	74	1	-------	9	-------	6	-------	-------	-------	-------
65 to 70	68	-------	-------	1	1	5	-------	-------	-------	-------
70 to 75	48	-------	-------	7	1	3	-------	-------	-------	-------
75 to 80	42	1	-------	1	-------	2	-------	-------	-------	-------
80 and over	19	1	-------	5	-------	2	-------	-------	-------	-------
Unknown	2	-------	5	2	8	-------	1	1	-------	-------

[a] Includes 56 membranous croup. [b] Includes 13 chronic.

TABLE 83.—*Per cent of deaths returned for the year 1890, from each of ten specified causes to deaths from all causes, and per cent of each sex, of deaths in each month and at different periods of life, to total deaths from each specified cause.*

Sex, months and ages.	Causes of death, 1890, per cent of total.									
	Cancer.	Cephalitis.	Croup.	Diarrhea.	Diphtheria.	Dysentery.	Measles.	Scarlet fever.	Typhoid fever.	Whooping cough.
Per cent of all causes	2.46	.26	2.17	1.50	5.84	.59	1.06	1.02	2.14	[illegible]
Sex. Males	44.09	57.90	59.87	55.38	49.21	61.72	52.40	45.95	56.56	[illegible]
Sex. Females	55.91	42.10	40.13	44.62	50.79	38.28	47.60	54.05	43.44	[illegible]
Sex. Unknown	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------
Months. January	7.50	7.02	7.64	1.85	6.95	3.91	4.37	8.56	4.95	8.69
Months. February	7.32	5.26	9.55	1.23	8.37	3.91	6.55	4.50	2.37	9.33
Months. March	7.88	3.51	11.47	3.08	9.00	1.56	10.04	6.76	3.44	6.67
Months. April	6.94	14.04	10.40	1.85	8.84	3.91	15.72	12.16	4.53	5.33
Months. May	10.32	10.53	5.52	2.46	7.50	3.91	18.34	6.76	6.02	14.67
Months. June	8.82	10.52	2.97	6.15	6.40	4.69	15.29	7.21	5.20	8.00
Months. July	9.38	12.28	5.31	20.00	5.69	12.50	13.97	10.36	3.01	6.67
Months. August	7.88	10.52	6.37	33.54	9.48	21.09	3.49	6.31	10.54	8.00
Months. September	8.26	5.26	8.71	16.92	9.01	25.78	2.62	9.00	15.28	9.33
Months. October	8.82	3.51	9.55	7.08	8.84	11.71	2.62	8.11	13.71	13.33
Months. November	8.44	1.75	10.20	2.15	10.20	5.47	2.62	8.11	12.04	4.00
Months. December	8.44	15.80	12.31	3.69	9.64	1.56	4.37	11.26	10.32	6.67
Months. Unknown	-------	-------	-------	-------	.08	-------	-------	.90	-------	-------
Months. Av. month [a]	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------
Ages. Under 5	1.31	63.16	81.32	82.46	45.66	61.72	73.80	61.71	-------	97.33
Ages. 5 to 10	.56	7.01	14.87	1.84	33.25	1.56	9.61	29.28	-------	2.67
Ages. 10 to 15	.75	3.51	2.12	1.84	13.27	-------	3.93	5.41	-------	-------
Ages. 15 to 20	-------	7.01	.21	1.23	3.63	.78	3.06	1.80	-------	-------
Ages. 20 to 25	.38	-------	.21	.31	1.18	1.56	2.18	.45	-------	-------
Ages. 25 to 30	2.25	1.76	-------	.31	.55	2.35	2.18	-------	-------	-------
Ages. 30 to 35	4.69	1.76	-------	.92	.79	4.69	1.31	.45	-------	-------
Ages. 35 to 40	4.88	3.51	-------	.62	.40	6.25	1.31	.45	-------	-------
Ages. 40 to 45	7.88	1.76	-------	.31	-------	1.56	1.31	-------	-------	-------
Ages. 45 to 50	11.07	1.76	.21	.31	.32	2.35	.44	-------	-------	-------
Ages. 50 to 55	10.32	1.76	-------	.62	.08	1.56	.44	-------	-------	-------
Ages. 55 to 60	8.44	1.75	-------	1.54	.08	1.56	-------	-------	-------	-------
Ages. 60 to 65	13.88	1.75	-------	2.77	-------	4.69	-------	-------	-------	-------
Ages. 65 to 70	12.76	-------	-------	.31	.08	3.91	-------	-------	-------	-------
Ages. 70 to 75	9.00	-------	-------	2.15	.08	2.34	-------	-------	-------	-------
Ages. 75 to 80	7.88	1.75	-------	.31	-------	1.56	-------	-------	-------	-------
Ages. 80 and over	3.57	1.75	-------	1.54	-------	1.56	-------	-------	-------	-------
Ages. Unknown	.38	-------	1.06	.61	.63	-------	.43	.45	-------	-------

[a] Excluding deaths in unknown month.

MORTALITY FROM CANCER.

Table 84 gives the number of deaths from cancer for 1872 and 1890 inclusive. The number of deaths from this cause for 1889 was 492, and for 1890, 533. With the exception of the three years 1882, 1884 and 1886 there has been a constant increase in deaths from this cause since 1871. The table gives the number in groups indicating the part of the body affected.

TABLE 84.—*Deaths from cancer in Michigan returned for the years 1872-1890, indicating part of body affected.*

Part affected.	Totals.	Males.	Females.	Part affected.	Totals.	Males.	Females.
Aggregate, years 1872-1890	6,130	2,634	3,496	Cancer of liver	140	79	61
Cancer of arm	6	3	3	Cancer of lungs	14	7	7
Cancer of bladder	17	14	3	Cancer of mouth	79	53	26
Cancer of bowels	119	43	76	Cancer of neck	26	19	7
Cancer of brain	1	.....	1	Cancer of nose	2	2	.....
Cancer of breast	388	24	364	Cancer of œsophagus	3	1	2
Cancer of ear	3	2	1	Cancer of pancreas	3	2	1
Cancer of eye	15	7	8	Cancer of rectum	25	14	11
Cancer of face	184	135	49	Cancer, rose	8	4	4
Cancer of foot	3	3	.....	Cancer of shoulder	2	2	.....
Cancer of gall bladder	1	.....	1	Cancer of side	12	2	10
Cancer of groin	4	3	1	Cancer of spine	5	2	3
Cancer of hand	3	2	1	Cancer of stomach	1,546	932	614
Cancer of head	32	19	13	Cancer of throat	83	48	35
Cancer of heart	6	2	4	Cancer of testicles	3	3	.....
Cancer of hip	1	1	.....	Cancer of tongue	20	10	10
Cancer, internal	32	9	23	Cancer (unspecified)	3,071	1,166	1,905
Cancer of kidneys	7	6	1	Cancer of urethra	1	.....	1
Cancer of leg	19	13	6	Cancer of uterus	244	.....	244
Cancer of lip	2	2	.....				

METEOROLOGY AND ITS RELATION TO DEATHS.

The meteorological observations upon which several of the following tables are based are furnished every year by the office of the State Board of Health. The principal conditions exhibited are temperature, humidity of the air, ozone, velocity of the wind and pressure of the atmosphere. Study of deaths from certain causes in connection with the above conditions is made in the tables following. The annual average temperature as given in Table 85 is lower for 1890 than for 1889 which was the highest for many years.

The stations represented in the lines for average temperature for the years 1881-1890 in Table 85 are the following: Thornville, Kalamazoo, Lansing; Mendon for 1881-1882; Tecumseh for 1885, 1888, 1890; Battle Creek for 1882, 1885, 1888, 1890; Reed City for 1881-1885; Otisville for 1881; Niles for 1881; Marquette for 1884, 1886-90; Alpena, Grand Haven, Port Huron, Detroit for 1887-1890; Washington for 1883; Agricultural College for 1881-1888, 1890; Escanaba for 1887; Harrisville for 1881 and 1882, 1885 and 1886-1890; Ann Arbor for 1881-1890; Parkville for 1881 and 1882; Traverse City for 1882-1888, 1889, 1890; Hillsdale for 1882-1884; Marshall for 1882-1888, 1889, 1890; Winfield for 1881 and 1883; Hudson and Mallory Lake for 1881; Ionia for 1883-1885; Manistique, Swartz Creek for 1884 and 1885; Mackinaw City for 1884-1887; Port Austin for 1885, 1888, and 1890; Muskegon, Pentwater for 1886; Gulliver Lake, Birmingham, Otsego for 1887, 1888, and 1890, and Otsego for 1890.

TABLE 85.—TEMPERATURE.—*Average by years and by months, for the years 1881-1890 inclusive, at representative stations in Michigan.*

Years.	Annual average.	Average temperature, stated in degrees Fahrenheit, by months.											
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1881 (20 stations)	47.22	14.93	19.75	29.36	40.53	62.72	63.32	72.95	71.76	67.99	51.87	37.42	34.08
1882 (22 stations)	47.14	24.32	33.42	34.12	42.65	51.04	64.43	67.84	69.05	61.70	53.53	37.90	25.72
1883 (19 stations)	43.52	15.78	20.03	24.63	43.00	51.37	64.73	68.36	65.41	57.24	46.73	38.10	26.89
1884 (20 stations)	44.72	15.14	20.94	28.78	42.00	54.38	67.04	66.70	66.10	64.72	51.56	34.53	24.77
1885 (21 stations)	42.36	15.46	10.21	19.51	41.39	53.32	63.39	71.13	63.23	59.14	45.78	28.14	27.59
1886 (17 stations)	44.82	18.72	21.18	30.10	46.04	54.69	63.31	68.68	67.36	61.15	51.84	34.32	29.44
1887 (17 stations)	44.82	16.58	21.57	25.55	42.09	60.68	66.53	73.22	66.41	57.95	44.46	25.18	27.57
1888 (13 stations)	45.03	15.93	21.65	25.89	42.81	53.40	68.03	70.95	68.05	58.20	46.01	38.73	30.73
1889 (13 stations)	47.36	28.18	18.57	35.83	46.04	56.74	63.05	70.69	68.58	61.36	44.59	37.95	28.78
1890 (12 stations)	46.99	30.06	30.07	27.47	45.23	52.41	69.93	71.29	65.28	58.06	48.88	28.60	26.65
Average for 10 years [a]	45.40	19.51	21.74	28.12	43.18	55.07	65.37	70.18	67.12	60.75	48.52	37.09	28.51

[a] Average for the ten years ending with 1890.

The stations represented in the lines for average atmospheric pressure for the years 1881–1889 in Table 86 are the following: Lansing for 1881–1890; Kalamazoo for 1881, 1882, and 1885–1890; Battle Creek for 1882, 1888; Detroit, Alpena, Grand Haven, Port Huron, 1881–1887, 1890; Mendon for 1881–1883; Marquette for 1881, 1884, 1886, 1887, 1890; Agricultural College, Ann Arbor for 1881–1890; Otisville for 1881 and 1882; Tecumseh for 1881 and 1882–1885; Washington, 1882 and 1883; Reed City for 1885; Thornville for 1881 and 1884–90; Escanaba for 1882–1887; Traverse City for 1882–1890; Harrisville for 1882 and 1885–1888, 1890; Hastings for 1882; Hillsdale for 1882 and 1883; Port Austin for 1883, 1884, and 1888; Marshall for 1883–1890; Manistique, 1884 and 1885; Mackinaw City for 1884–1887; Ionia for 1884 and 1885; Swartz Creek for 1885; Birmingham for 1888 and 1890; Gulliver Lake for 1888–1889–1890.

TABLE 86.—PRESSURE OF THE ATMOSPHERE.—*Observations of barometers reduced to freezing point for each of the years 1881–1890, inclusive, and the average for ten years, at representative stations in Michigan.*

Years.	No. of stations.	Annual average.	Pressure of the atmosphere, stated in inches of mercurial column, by months.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1881...	14	29.151	29.209	29.222	28.979	29.120	29.175	29.082	29.146	29.180	29.122	29.220	29.164	29.187
1882...	21	29.138	29.186	29.121	29.149	29.153	29.123	29.001	29.118	29.112	29.202	29.134	29.224	29.135
1883...	17	29.189	29.221	29.328	29.145	29.125	29.099	29.072	29.140	29.233	29.238	29.275	29.182	29.205
1884...	18	29.205	29.274	29.204	29.202	29.147	29.131	29.273	29.100	29.216	29.210	29.268	29.218	29.229
1885...	19	29.152	29.200	29.119	29.186	29.194	29.092	29.181	29.126	29.151	29.195	29.145	29.092	29.135
1886...	15	29.192	29.188	29.198	29.126	29.230	29.128	29.161	29.159	29.166	29.222	29.331	29.137	29.226
1887...	15	29.215	29.118	29.310	29.250	29.152	29.204	29.203	29.188	29.234	29.305	29.185	29.211	29.218
1888...	12	29.158	29.278	29.129	29.203	29.250	29.065	29.069	29.166	29.144	29.174	29.070	29.202	29.143
1889...	12	29.128	29.068	29.177	29.089	29.116	29.060	29.100	29.104	29.192	29.131	29.228	29.135	29.141
1890...	12	29.125	29.187	29.108	29.132	29.195	29.020	29.089	29.115	29.168	29.220	29.028	29.112	29.129
Average *..		29.16	29.19	29.19	29.14	29.17	29.11	29.12	29.14	29.18	29.20	29.19	29.17	29.17

* Average for ten years ending with 1890.

Croup.—There were 471 deaths reported for 1890 as having been caused by croup. For 1889 there were 403, and for 1888, 474. Thus the ratio of deaths from this cause to all deaths is somewhat higher than for 1889, when it was 1.98 per cent, being about 2.10 for 1890.

TABLE 87.—*Deaths returned from croup in Michigan, by months, during the year 1890, and certain meteorological conditions at representative stations in Michigan, during the same year and months.*

Months in order by number of deaths from croup, greatest first.	Deaths from croup, 1890.		Temperature, degrees Fahr.		Humidity of atmosphere, etc., monthly averages.				Ozone,—relative maximum =10.			
	Number.	Per cent of Total.	Average daily range by registering thermometers.	Average of three daily observations.	Relative per cent of saturation.	Absolute grains of vapor in a cubic foot of air. a	Weight in troy ounces of vapor inhaled by one person in 24 hours. b	Weight in troy ounces of vapor exhaled from air passages in 24 hours in excess of vapor inhaled. c	Day,—7 a. m. to 2 p. m.	Night,—9 p. m. to 7 a. m.	Average velocity of wind, miles per hour, by registering anemometer.	Average pressure of atmosphere (barometer reduced to 32° Fahr.)
Number of stations included in meteorological averages	d471	100.00	19	12	10	10	10	10	8	8	7	12
More than the average No. of deaths.												
December	58	12.31	14.33	26.65	83	1.60	1.00	10.68	3.49	3.71	10.08	29.129
March	54	11.47	15.92	27.47	82	1.73	1.08	10.69	4.19	4.49	11.02	29.132
April	49	10.40	20.68	45.23	78	2.93	1.83	10.85	4.08	4.47	10.03	29.116
November	48	10.20	14.72	38.60	80	2.46	1.53	10.15	2.53	2.63	10.04	29.112
October	45	9.56	14.67	48.88	83	3.66	2.28	9.40	3.09	3.09	8.06	29.028
February	45	9.56	13.99	30.07	86	1.95	1.22	10.46	3.97	4.57	11.07	29.108
September	41	8.71	19.67	58.06	80	4.59	2.87	8.81	3.44	3.14	8.04	29.230
Average	39	8.33	17.38	46.99	79	3.52	2.20	9.56	3.69	3.83	9.07	29.125
Less than the Av. No. of deaths.												
January	36	7.64	15.22	e30.06	87	2.02	f1.26	10.42	3.99	3.91	12.01	29.187
August	30	6.37	20.06	65.28	76	5.46	3.41	8.27	3.49	3.51	7.09	29.156
May	26	5.52	18.00	52.41	74	3.72	2.32	9.36	4.65	4.83	9.09	29.020
July	25	5.31	21.37	71.29	69	5.95	3.72	7.96	3.23	3.93	8.03	29.115
June	14	2.95	19.96	69.93	74	6.23	3.89	7.79	4.13	4.19	7.04	29.089

a Calculated from readings of dry bulb and wet bulb thermometers.
b Calculated for 18 respirations per minute of 20 cubic inches of air each.
c Assuming the air exhaled to be saturated with vapor at the temperature of 98° F., each cubic foot containing 18.69 grains, 18 respirations per minute, of 20 cubic inches of air each, making 11.68 Troy ounces of vapor exhaled daily. No correction made for expansion of air after being inhaled.
d Includes 56 deaths from membranous croup.
e Exceptions to the proposition that *more* than an average number of deaths from croup occurred in months when the average daily temperature was *less* than the average, and *vice versa*.
f Exceptions to the proposition that *more* than the average number of deaths from croup occurred in months when there was *less* than the average quantity of vapor inhaled, and *vice versa*.

Diptheria—The number of deaths caused by this disease for several years can be seen in the following statement:

1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.
1,473	1,542	2,063	1,416	1,007	1,065	1,054	1,117	985	717	848	1,265

The exhibit following shows the number of deaths from diphtheria for each of the geographical divisions of the State and in Table 88 the disease is considered in relation to climatic conditions:

Relative prevalence of diphtheria in 1890 in each of the eleven geographical divisions of the State.

State and geographical divisions.	Total mortality from all causes.	Deaths from diphtheria.	Per cent of deaths from diphtheria to deaths from all causes.
State	21,642	1,266	5.85
Upper Peninsular	1,616	146	9.03
Northwestern	528	9	1.70
Northern	376	24	6.39
Northeastern	329	6	1.82
Western	2,426	263	10.88
Northern Central	608	14	2.30
Eastern	2,922	130	4.45
Central	2,330	57	2.44
Southwestern	1,126	35	3.11
Southern Central	2,874	77	2.67
Southeastern	6,497	505	7.77

TABLE 88.—*Deaths returned from diphtheria in Michigan, by months, during the year 1890, and some coincident meteorological conditions, at representative stations in Michigan during the same year and months.*

Months in order by number of deaths from diphtheria, greatest first.	Deaths from diphtheria, 1890.		Temperature, degrees Fahr.		Humidity of atmosphere, etc., monthly averages.				Ozone,—relative maximum =10.			
	Number.	Per cent of total.	Average daily range by registering thermometer.	Average of three daily observations.	Relative per cent of saturation.	Absolute grains of vapor in a cubic foot of air, a	Weight in Troy ounces of vapor inhaled by one person in 24 hours, a	Weight in Troy ounces of vapor exhaled from air passages in 24 hours in excess of vapor inhaled, a	Day,—7 a. m. to 2 p. m.	Night,—9 p. m. to 7 a. m.	Average velocity of wind, miles per hour, by registering anemometer.	Average pressure of atmosphere, (barometer reduced to 32° Fahr.)
Number of stations included in meteorological averages	*1265	100.00	19	12	10	10	10	10	8	8	7	12
More than the average No. of deaths.												
November	129	10.20	14.72	38.60	80	2.46	1.53	10.15	2.53	2.63	10.04	29.112
December	122	9.65	14.33	26.65	83	1.60	1.00	10.68	3.49	3.71	10.08	29.129
August	120	9.49	20.06	65.28	76	5.46	3.41	8.27	3.49	4.19	7.09	29.168
March	114	9.01	15.92	27.47	82	1.73	1.08	10.60	4.19	4.49	11.02	29.132
September	114	9.01	19.67	58.06	80	4.59	2.87	8.81	3.44	3.14	8.04	29.220
April	112	8.85	20.68	45.23	73	2.93	1.83	10.85	4.08	4.47	10.03	29.195
October	112	8.85	14.67	48.88	83	3.66	2.28	9.40	3.09	3.09	8.06	29.025
February	106	8.38	13.99	30.07	86	1.95	1.22	10.46	3.97	4.57	11.07	29.108
Average	105	8.33	17.38	46.99	79	3.52	2.20	9.56	3.69	3.83	9.07	29.125
Less than the average No. of deaths.												
May	95	7.51	18.00	52.41	74	3.72	2.32	9.36	4.45	4.83	9.09	29.020
January	88	6.96	15.22	b30.06	87	2.02	c1.26	10.42	3.99	3.91	12.01	29.187
June	81	6.40	19.96	69.93	74	6.23	3.89	7.79	4.13	4.19	7.04	29.089
July	72	5.69	21.37	71.29	69	5.95	3.72	7.96	3.23	3.39	8.03	29.115

* Excluding one in unknown month.
a See foot-notes to Table 87.
b Exceptions to the proposition that *more* than an average number of deaths from diphtheria occurred in months when the average daily temperature was *less* than the average, and *vice versa*.
c Exceptions to the proposition that *more* than an average number of deaths from diphtheria occurred in months when *less* than the average quantity of vapor was inhaled, and *vice versa*.

Typhoid Fever.—This disease, with considerations of the weather, may be studied in the following table. It will be seen that the autumn months are above the average in number of deaths. For 1889 there were 637 deaths from this cause.

TABLE 89.—*Deaths returned in Michigan from typhoid fever, by months, during the year 1890, and some coincident meteorological conditions, at representative stations in Michigan during the same year and months.*

Months in order by number of deaths from typhoid fever, greatest first.	Deaths from typhoid fever, 1890.		Temperature, degrees Fahr.		Humidity of atmosphere, etc.—Monthly averages.				Ozone,—relative maximum =10.		Average velocity of wind—miles per hour—by registering anemometers.	Average pressure of atmosphere. (Barometer reduced to 32° Fahr.)
	Number.	Per cent of total.	Average daily range by registering thermometer.	Average of three daily observations.	Relative per cent of saturation.	Absolute grains of vapor in a cubic foot of air.[a]	Weight in Troy ounces of vapor inhaled by one person in 24 hours.[a]	Weight in Troy ounces of vapor exhaled from air passages in 24 hours in excess of vapor inhaled.[a]	Day,—7 a. m. to 2 p. m.	Night,—9 p. m. to 7 a. m.		
Number of stations included in meteorological averages	465	100.00	19	12	10	10	10	10	8	8	7	12
More than the Av. No. of deaths. October	87	18.71	b 14.67	48.88	83	3.66	2.28	9.40	3.09	3.09	8.06	f 29.028
September	85	18.28	19.67	58.06	80	4.59	2.87	8.81	3.44	3.14	8.04	29.220
November	56	12.04	b 14.72	c 38.60	80	d 2.46	1.53	10.15	2.53	2.63	10.04	f 29.112
August	49	10.54	20.06	65.28	76	5.46	3.41	8.27	3.49	3.51	7.09	29.168
December	48	10.32	b 14.33	c 26.65	83	d 1.60	1.00	10.68	3.49	3.71	10.08	29.129
Average	38	8.33	17.38	46.99	79	3.52	2.20	9.56	3.69	3.83	9.07	29.125
Less than the average No. of deaths. May	28	6.02	b 18.00	c 52.41	74	d 3.72	2.32	9.36	4.65	4.83	9.09	29.020
June	27	5.80	b 19.96	c 69.93	74	d 6.23	3.89	7.79	4.13	4.19	7.04	29.089
January	23	4.95	15.22	30.06	87	2.02	1.26	10.42	3.99	3.91	12.01	f 29.187
April	21	4.51	b 20.68	45.23	73	2.93	1.83	10.85	4.08	4.47	10.03	f 29.195
March	16	3.45	15.92	27.47	82	1.73	1.08	10.60	4.19	4.49	11.02	f 29.132
July	14	3.01	b 21.37	c 71.29	69	d 5.95	3.72	7.96	e 3.23	3.39	8.03	29.115
February	11	2.37	13.99	30.07	86	1.95	1.22	10.46	3.97	4.57	11.07	29.108

[a] See foot-notes to Table 87.
[b] Exceptions to the proposition that the average daily range of temperature was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.
[c] Exceptions to the proposition that the average daily temperature was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.
[d] Exceptions to the proposition that the absolute humidity was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.
[e] Exceptions to the proposition that the ozone was *less* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.
[f] Exceptions to the proposition that the atmospheric pressure indicated by the barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

Diarrheal Diseases—In Table 90 may be seen the number of deaths from this cause for the years 1879 and 1890 inclusive. The number for each disease of the class and the total, with an average are given in the table.

TABLE 90.—*Deaths returned from diarrheal diseases in Michigan during the years 1879–1890 and the average.*

Years.	Diarrhœa.	Dysentery.	Cholera infantum.	Cholera morbus.	Enteritis.	Diarrheal diseases.
1879	226	135	300	36	237	934
1880	310	160	499	64	267	1,300
1881	501	270	857	86	342	2,056
1882	259	96	428	50	276	1,109
1883	267	114	465	27	294	1,167
1884	409	160	781	50	350	1,750
1885	261	105	360	42	324	1,092
1886	378	158	653	42	327	1,558
1887	414	183	626	57	339	1,619
1888	371	153	767	52	390	1,733
1889	419	154	722	53	352	1,700
1890	308	115	591	31	315	1,360
Average	344	150	587	49	318	1,448

Diarrhea—There were 325 deaths returned as having been caused by this disease during the year 1890. For 1889 there were 419 such deaths. A large percentage of these were children under five years of age.

TABLE 91.—*Deaths returned in Michigan from diarrhea, by months, during the year 1890, and some coincident meteorological conditions.*

Months in order by number of deaths from diarrhea, greatest first.	Deaths from diarrhea, 1890.		Temperature, degrees Fahr.		Humidity of atmosphere, etc., monthly averages.				Ozone,—relative maximum=10.			
	Number.	Per cent of total.	Average daily range by registering thermometers.	Average of three daily observations.	Relative per cent of saturation.	Absolute grains of vapor in a cubic foot of air, a	Weight in Troy ounces of vapor inhaled by one person in 24 hours, a	Weight in Troy ounces of vapor exhaled from air passages in 24 hours in excess of vapor inhaled, a	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.	Average velocity of wind—miles per hour—by registering anemometers.	Average pressure of atmosphere, (Barometer reduced to 32° Fahr.)
Number of stations included in meteorological averages.	325	100.00	19	12	10	10	10	10	8	8	7	12
More than the Av. No. of deaths.												
August	109	33.54	20.06	65.28	76	5.46	3.41	8.27	3.49	3.51	7.09	29.168
July	65	20.00	21.37	71.29	69	5.95	3.72	7.96	3.23	3.39	8.03	g 29.115
September	55	16.92	19.67	58.06	d 80	4.59	2.87	8.81	3.44	3.14	8.04	29.220
Average	27	8.33	17.38	46.99	79	3.52	2.20	9.56	3.69	3.83	9.07	29.125
Less than the average number of deaths.												
October	23	7.08	14.67	c48.88	83	e 3.66	2.28	9.40	f 3.09	3.09	8.06	29.028
June	20	6.15	b 19.97	c69.93	d 74	e 6.23	3.89	7.79	4.13	4.19	7 04	29.089
December	12	3.69	14.33	26.65	83	1.60	1.00	10.68	f 3.49	3.71	10.08	g 29.129
March	10	3.08	15.92	27.47	82	1.73	1.08	10.60	4.19	4.49	11.02	g 29.132
May	8	2.46	18.00	c52.41	d 74	e 3.72	2.32	9.36	4.65	4.83	9.09	29.020
November	7	2.15	14.72	38.60	80	2.46	1.53	10.15	f 2.53	2.63	10.04	29.112
April	6	1.85	b 20.67	45.23	d 73	2.93	1.83	10.85	4.08	4.47	10.03	g 29.195
January	6	1.85	15.22	30.06	87	2.02	1.26	10.42	3.99	3.91	12.01	g 29.187
February	4	1.23	13.99	30.07	86	1.95	1.22	10.46	397	4.57	11.07	29.108

a See foot-notes to Table 87, page —.

b Exceptions to the proposition that *more* than the average number of deaths from diarrhea occurred in months when the average daily range of temperature was *greater* than the average, and *vice versa*.

c Exceptions to the proposition that *more* than the average number of deaths from diarrhea occurred in months when the average daily temperature was *higher* than the average, and *vice versa*.

d Exceptions to the proposition that *more* than the average number of deaths from diarrhea occurred in months when the relative humidity of the atmosphere was *less* than the average, and *vice versa*.

e Exceptions to the proposition that *more* than the average number of deaths from diarrhea occurred in months when the absolute humidity of the atmosphere was *greater* than the average, and *vice versa*.

f Exceptions to the proposition that *more* than the average number of deaths from diarrhea occurred in months when the amount of ozone in the atmosphere was *less* than the average, and *vice versa*.

g Exceptions to the proposition that *more* than the average number of deaths from diarrhea occurred in months when the average daily pressure of the atmosphere was *greater* than the average, and *vice versa*.

Scarlet Fever.—The deaths from scarlet fever for 1890 were 220. For 1889 there were 240. This disease, as usual, was most fatal among children aged under 10 years of age, and the ratio to the total number of deaths for the year was about 1.01 per cent, which is less than for the two preceding years.

TABLE 92.—*Deaths returned in Michigan from scarlet fever, by months, during the year 1890, and some coincident meteorological conditions, at representative stations in Michigan during the same year and months.*

Months in order by number of deaths from scarlet fever, greatest first.	Deaths from scarlet fever, 1890.		Temperature, degrees Fahr.		Humidity of atmosphere, etc., monthly averages.				Ozone,—relative maximum—10.			
	Number.	Per cent of total.	Average daily range of registering thermometers.	Average of three daily observations.	Relative per cent of saturation.	Absolute grains of vapor in a cubic foot of air, a	Weight in Troy ounces of vapor inhaled by one person in 24 hours, a	Weight in Troy ounces of vapor exhaled from air passages in 24 hours in excess of vapor inhaled, a	Day,—7 a. m. to 2 p. m.	Night,—9 p. m. to 7 a. m.	Average velocity of wind—miles per hour—by registering anemometer.	Average pressure of atmosphere (barometer reduced to 32° Fahr.).
Number of stations included in meteorological averages	* 220	100.00	19	12	10	10	10	10	8	8	7	12
More than the average No. of deaths. April	27	12.27	20.68	45.23	73	2.93	1.82	10.85	4.08	4.47	10.02	29.19
December	25	11.36	14.33	26.65	83	1.60	1.00	10.68	3.49	3.71	10.08	29.12
July	23	10.46	21.37	b 71.29	69	c 5.95	3.72	7.96	3.23	3.39	8.03	29.11
September	20	9.10	19.67	b 58.06	80	c 4.59	2.87	8.81	3.44	3.14	8.04	29.23
January	19	8.64	15.22	30.06	87	2.02	1.26	10.42	3.99	3.91	12.01	29.17
October	18	8.18	14.67	b 48.88	83	c 3.66	2.29	9.39	3.09	3.09	8.06	29.02
November	18	8.18	14.72	38.60	80	2.46	1.53	10.15	2.53	2.63	10.04	29.11
Average	18	8.33	17.38	46.99	79	3.52	2.20	9.56	3.69	3.83	9.07	29.15
Less than the av. No. of deaths. June	16	7.27	19.96	69.93	74	6.23	3.89	7.79	4.13	4.19	7.04	29.08
March	15	6.82	15.92	b 27.47	82	c 1.73	1.08	10.60	4.19	4.49	11.02	29.12
May	15	6.82	18.00	52.41	74	3.72	2.32	9.36	4.65	4.83	9.03	29.02
August	14	6.36	20.06	65.28	76	5.46	3.41	8.27	3.49	3.51	7.09	29.19
February	10	4.54	13.99	b 30.07	86	c 1.95	1.22	10.46	3.97	4.37	11.07	29.10

* Excluding 2 in unknown month.
a See foot-notes to Table 87.
b Exceptions to the proposition that the average daily temperature was *lower* than the average in months when *more* than the average number of deaths from scarlet fever occurred, and *vice versa*.
c Exceptions to the proposition that the absolute humidity of the atmosphere was *less* than the average in months when *more* than the average number of deaths from scarlet fever occurred, and *vice versa*.

Consumption.—As usual this dread disease claims the highest number in the death list. Though the number of deaths from this cause is more for 1890 than it was for 1889 it is considerably less than for several preceding years. More deaths occur from this disease between the ages of 20 and 30 than for any other age of equal time.

TABLE 93.—CONSUMPTION.—*Deaths from consumption returned in Michigan, by Months, during the year 1890, and some coincident meteorological conditions, at representative stations in Michigan during the same year and months.*

Months in order by number of deaths from consumption, greatest first.	Deaths from consumption, 1890.		Temperature, degrees Fahr.		Humidity of atmosphere, etc., monthly averages.				Ozone,—relative maximum =10.		Average velocity of wind—miles per hour—by registering anemometers.	Average pressure of atmosphere (barometer reduced to 32° Fahr).
	Number.	Per cent of total.	Average daily range by registering thermometers.	Average of three daily observations.	Relative per cent of saturation.	Absolute grains of vapor in a cubic foot of air, a	Weight in Troy ounces of vapor inhaled by one person in 24 hours, a	Weight in Troy ounces of vapor exhaled from air passages in 24 hours in excess of vapor inhaled, a	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.		
No. stations included in meteorological av'r'g's	b2,204	100.00	19	12	10	10	10	10	8	8	7	12
More than the average No. of deaths. April	218	9.89	20.68	c 45.23	73	2.93	d 1.83	10.85	4.08	4.47	10.03	29.195
March	199	9.03	15.92	c 27.47	82	1.73	d 1.08	10.60	4.19	4.49	11.02	29.132
December	199	9.03	14.33	c 26.65	83	1.60	d 1.00	10.68	3.49	3.71	10.08	29.129
August	194	8.80	20.06	65.28	76	5.46	3.41	8.27	3.49	3.51	7.09	29.168
January	191	8.67	15.22	c 30.06	87	2.02	d 1.26	10.42	3.99	3.91	12.01	29.187
May	189	8.58	18.00	52.41	74	3.72	2.32	9.36	4.65	4.83	9.09	29.020
Average	183	8.33	17.38	46.99	79	3.52	2.20	9.56	3.69	3.88	9.07	29.125
Less than the average No. of deaths. February	179	8.12	13.99	30.07	86	1.95	d 1.22	10.46	3.97	4.57	11.07	29.108
November	174	7.89	14.72	38.60	80	2.46	d 1.53	10.15	2.53	2.63	10.04	29.112
October	173	7.85	14.67	c 48.88	83	3.66	2.28	9.40	3.09	3.09	8.06	29.028
June	168	7.62	19.96	c 69.93	74	6.23	3.89	7.79	4.13	4.19	7.04	29.089
September	162	7.35	19.67	c 58.06	80	4.59	2.87	8.81	3.44	3.14	8.04	29.220
July	158	7.17	21.37	c 71.29	69	5.95	3.72	7.96	3.23	3.39	8.03	29.115

a See foot-notes to Table 87.
b Excluding 3 deaths in unknown months.
c Exceptions to the proposition that the average daily temperature was *higher* than the average in months when *more* than the average number of deaths from consumption occurred, and *vice versa*.
d Exceptions to the proposition that *more* than the average amount of vapor was inhaled in months in which there was *more* than the average number of deaths from consumption, and *vice versa*.

Mortality from consumption by months and quarters, 1890.

Months.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk
	191	179	199	218	189	168	158	194	162	173	174	199	3
Quarters	569			575			514			546			3
Per cent	25.78			26.05			23.29			24.74			.14

Total mortality from consumption by sex, months and age, 1869-1889.

	Sex.			Months.												
	Males.	Females.	Totals.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Males	18,114	.....	.....	1,121	1,258	1,676	1,719	1,675	1,426	1,430	1,539	1,549	1,484	1,475	1,705	57
Females	.....	20,918	.....	1,306	1,450	1,794	1,922	1,906	1,660	1,689	1,807	1,919	1,758	1,716	1,912	79
Totals	.....	.....	39,032													
Quarters	.....	.....	.....	8,605			10,308			9,933			10,050			136
Per cent	.....	.....	.....	22.05			26.41			25.45			25.74			.35

	Ages.												
	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over	Unknown.
Males	1,281	215	259	1,098	4,207	3,048	2,386	2,058	1,935	1,135	201	291
Females	1,221	246	627	2,464	6,091	3,744	2,245	1,621	1,364	832	162	301
Totals	2,502	461	886	3,562	10,298	6,792	4,631	3,679	3,299	1,967	363	592
Per cent	6.41	1.18	2.27	9.13	26.38	17.40	11.86	9.43	8.45	5.04	.93	1.52

Mortality from consumption by sex and age, 1890.

Ages.	Deaths from all causes.	Deaths from consumption.	Per cent at several ages.	Males.	Females.	Per cent of deaths from consumption to population.
Under 10	8,945	147	6.66	75	72	.033
10 to 20	1,403	265	12.01	86	179	.069
20 to 30	1,825	599	27.14	261	338	.169
30 to 40	1,625	415	18.80	189	226	.162
40 to 50	1,390	291	13.19	163	128	.158
50 to 60	1,373	183	8.29	105	78	.146
60 to 70	1,873	156	7.07	94	62	.211
70 to 80	1,798	97	4.39	58	39	.315
80 and over	1,108	15	.68	9	6	.195
Age not stated	302	39	1.77	20	19	2.355
Totals	21,642	2,207	100.00	1,060	1,147	.119

Pneumonia—This disease is treated in the two following tables. It will be seen that it is most prevalent during the winter and early spring.

TABLE 94.—*By months, the number of deaths returned from pneumonia in Michigan during each of the years 1881-1890, and the average for ten years ending with 1890.*

Years.	Deaths from pneumonia, 1881-1890.													
	Totals.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
1881	805	77	88	126	100	70	37	39	29	47	55	43	91	3
1882	735	59	65	84	82	94	58	29	29	36	43	57	97	2
1883	737	76	61	97	104	89	40	30	42	27	41	53	76	1
1884	767	68	101	106	83	67	39	34	42	34	30	70	90	3
1885	733	65	100	122	86	66	34	26	26	41	45	43	78	1
1886	783	57	62	113	100	63	48	32	28	36	46	76	121	1
1887	884	87	112	122	113	75	44	28	36	52	64	66	84	1
1888	1,190	96	153	181	143	128	74	36	37	68	68	74	113	1
1889	1,048	122	103	139	147	75	52	50	47	48	80	75	108	2
1890	852	139	89	105	89	72	38	33	30	38	43	78	98	..
Av. for 10 years	853	84	93	119	104	79	46	33	34	42	51	63	95	1

TABLE 95.—*Deaths returned from pneumonia in Michigan during the year 1890, and some coincident meteorological conditions at representative stations in Michigan during the same year and months.*

Months in order by number of deaths from pneumonia, greatest first.	Deaths from pneumonia, 1890.		Temperature, degrees Fahr.		Humidity of atmosphere, etc., monthly averages.				Ozone,—relative maximum =10.		Average velocity of wind,—miles per hour,—by registering anemometer.	Average pressure of atmosphere, (barometer reduced to 32° Fahr.).
	Number.	Per cent of total.	Average daily range by registering thermometers.	Average of three daily observations.	Relative per cent of saturation.	Absolute grains of vapor in a cubic foot of air, a	Weight in Troy ounces of vapor inhaled by one person in 24 hours, a	Weight in Troy ounces of vapor exhaled from air passages in 24 hours in excess of vapor inhaled.	Day, 7 a. m. to 2 p. m.	Night, 9 p. m. to 7 a. m.		
Number of stations included in meteorological averages	852	100.	19.	12.	10	10.	10.	10.	8.	8.	7.	12.
More than the average No. of deaths.												
January	139	16.31	15.22	30.06	87	2.02	1.26	10.42	3.99	3.91	9.07	29.125
March	105	12.32	15.92	27.47	82	1.73	1.08	10.60	4.19	4.49	11.02	29.132
December	98	11.50	14.33	26.65	83	1.60	1.00	10.68	3.49	3.71	10.08	29.129
April	89	10.45	20.68	45.23	73	2.93	1.83	10.85	4.09	4.47	10.03	29.195
February	89	10.45	13.99	30.07	86	1.95	1.22	10.46	3.97	4.57	11.07	29.108
November	78	9.16	14.72	33.60	80	2.46	1.53	10.15	2.53	2.63	10.04	29.112
May	72	8.45	18.00	b 52.41	74	3.72	c 2.32	9.36	4.65	4.83	9.09	29.020
Average	71	8.33	17.38	46.99	79	3.52	2.20	9.56	3.69	3.82	9.07	29.125
Less than the av. No. of deaths.												
October	43	5.05	14.72	48.88	83	3.66	2.28	9.40	3.09	3.09	8.06	29.125
September	38	4.46	19.67	55.06	80	4.59	2.87	8.81	3.44	3.14	8.04	29.220
June	38	4.46	19.96	69.98	74	6.23	3.89	7.79	4.13	4.19	7.94	29.089
July	33	3.87	21.37	71.29	69	5.95	3.72	7.96	3.23	3.36	8.33	29.113
August	30	3.52	20.06	65.28	76	5.46	3.41	8.27	3.49	3.51	7.59	29.155

a See foot-notes to Table 87.

b Exceptions to the proposition that the average daily temperature was *lower* than the average in months, when *more* than the average number of deaths from pneumonia occurred, and *vice versa*.

c Exceptions to the proposition that *less* than the average amount of vapor was inhaled in months, when *more* than the average number of deaths for pneumonia occurred, and *vice versa*.

In Table 96 is given the relative prevalence in 1890 of consumption, pneumonia, typhoid fever, scarlet fever, and diarrhea for each of the eleven geographical divisions of the State. The proportion of each to the total number of deaths may be seen, and interesting comparisons made. The counties included in each division are given in Table 75.

TABLE 96.—*Exhibiting for the State and eleven geographical divisions, in 1890, the number and per cent of deaths returned from all causes, from consumption, pneumonia, typhoid fever, scarlet fever and diarrhea.*

State and geographical divisions.	Deaths from all causes, 1890.	Consumption.		Pneumonia.		Typhoid fever.		Scarlet fever.		Diarrhea.	
		Number of deaths.	Per cent to deaths from all causes.	Number of deaths.	Per cent to deaths from all causes.	Number of deaths.	Per cent to deaths from all causes.	Number of deaths.	Per cent to deaths from all causes.	Number of deaths.	Per cent to deaths from all causes.
State	21,642	2,246	10.37	889	4.10	465	2.15	222	1.02	325	1.50
Upper Peninsula	1,616	116	7.18	62	3.83	62	3.83	20	1.23	68	4.20
Northwestern	528	59	11.17	12	2.27	10	1.90	4	.76	5	.94
Northern	376	49	13.03	4	1.06	7	1.86	4	1.06	3	.79
Northeastern	329	31	9.48	7	2.13	1	.30	2	.60	5	1.52
Western	2,436	253	10.38	70	2.90	66	2.71	20	.82	24	.98
Northern central	608	63	10.36	13	2.13	19	3.12	17	.28	3	.49
Eastern	2,922	290	9.92	123	4.21	65	2.23	42	1.43	38	1.30
Central	2,330	255	10.94	73	3.13	66	2.87	14	.60	8	.34
Southwestern	1,126	143	12.70	35	3.11	37	3.28	7	.62	7	.62
Southern central	2,874	315	10.96	141	4.90	60	2.09	12	.42	28	.97
Southeastern	6,497	672	10.34	349	5.37	72	1.11	80	1.23	136	2.09

TABLE 97.—*Exhibiting for the State and eleven geographical divisions, the number and per cent of deaths at all ages, from old age, of all aged 70 and over, and of all aged under 5, during the year 1890.*

State and geographical divisions.	Deaths at all ages, 1890.	Old age.		Aged 70 and over.		Aged under 5.	
		Number of deaths.	Per cent to deaths at all ages by geographical divisions.	Number of deaths.	Per cent to deaths at all ages by geographical divisions.	Number of deaths.	Per cent to deaths at all ages by geographical divisions.
State	21,642	980	4.53	2,906	13.42	7,848	36.26
Upper Peninsula	1,616	20	1.24	75	4.64	808	50.00
Northwestern	528	23	4.36	60	11.36	246	46.44
Northern	376	10	2.66	33	8.78	178	47.07
Northeastern	329	3	.91	7	2.13	276	83.89
Western	2,436	110	.45	218	8.95	931	38.22
Northern central	608	20	3.29	78	12.83	219	36.02
Eastern	2,922	128	4.38	358	12.21	1,250	42.78
Central	2,330	160	6.87	504	21.63	700	33.47
Southwestern	1,126	79	7.01	266	23.62	300	26.64
Southern central	2,874	203	7.06	697	24.25	618	21.50
Southeastern	6,497	224	3.45	610	9.39	2,242	34.60

TABLE 98.—*Showing the average age of decendents in Michigan during the years 1888, 1889, 1890, and the average for ten years, 1880–1889.*

	Year ending.	Average age in years and 100ths of a year.			
		Totals.	Males.	Females	Excess of Males.
Deaths as shown by registration returns	Dec. 31, 1888	28.52	28.80	28.12	.68
Deaths of native-born inhabitants as shown by registration returns		21.83	21.70	22.11	—.41
Deaths of foreign-born inhabitants as shown by registration returns		50.49	50.80	50.11	.69
Deaths from consumption, by registration returns		35.55	37.73	33.79	3.94
All aged 20 and over whose occupations were stated in registration of deaths		52.15	53.80	50.01	3.79
All who died aged 20 years and over as shown by registration returns		54.29	55.92	52.41	3.51
Deaths of native-born inhabitants aged 20 years and over as shown by registration returns		52.92	55.04	50.95	4.09
Deaths of foreign-born inhabitants aged 20 years and over as shown by registration returns		54.96	55.27	54.58	.69
Deaths as shown by registration returns	Dec. 31, 1889	28.55	30.44	29.40	1.04
Deaths of native-born inhabitants as shown by registration returns		25.20	23.25	22.11	1.14
Deaths of foreign-born inhabitants as shown by registration returns		50.88	49.90	55.04	—5.14
Deaths from consumption, by registration returns		35.08	36.70	30.35	6.35
All aged 20 and over whose occupations were stated in registration returns of deaths		53.79	51.05	56.12	—5.07
All who died aged 20 years and over as shown by registration returns		51.77	52.70	45.85	6.85
Deaths of native-born inhabitants aged 20 years and over as shown by registration returns		59.12	54.21	50.16	4.05
Deaths of foreign-born inhabitants aged 20 years and over as shown by registration returns		54.66	53.29	59.14	—5.85
Deaths as shown by registration returns	Dec. 31, 1890	28.60	30.45	29.36	1.09
Deaths of native-born inhabitants as shown by registration returns		24.80	23.37	23.18	.19
Deaths of foreign-born inhabitants as shown by registration returns		49.90	50.01	48.35	1.66
Deaths from consumption, by registration returns		43.17	34.70	29.10	5.60
All aged 20 and over whose occupations were stated in registration returns of deaths		54.20	55.29	55.02	.27
All who died aged 20 years and over as shown by registration returns		52.60	53.18	46.11	7.07
Deaths of native-born inhabitants aged 20 years and over as shown by registration returns		59.19	54.30	50.21	4.09
Deaths of foreign-born inhabitants aged 20 years and over as shown by registration returns		53.50	52.48	57.13	—4.65
Deaths as shown by registration returns	Average for 10 years, 1880-90	27.10	27.76	26.70	1.06
Deaths of native-born inhabitants as shown by registration returns		21.28	21.13	21.08	.05
Deaths of foreign-born inhabitants as shown by registration returns		48.67	49.15	48.09	1.06
Deaths from consumption, by registration returns		35.71	37.92	33.47	4.45
All aged 20 and over whose occupations were stated in registration returns of deaths		52.25	53.91	50.59	3.32
All who died aged 20 years and over as shown by registration returns		52.71	54.25	50.57	3.68
Deaths of native-born inhabitants aged 20 years and over as shown by registration returns		52.48	54.22	49.62	4.60
Deaths of foreign-born inhabitants aged 20 years and over as shown by registration returns		53.16	54.06	53.31	.75

LONGEVITY OF DECEDENTS.

Table 99 gives a total of all decedents aged over 20, classed by occupations, who have died in this State for the last 21 years.

No definite conclusion can be drawn from the age attained by any single individual, but when a sufficient number engaged in any one occupation can be taken collectively, they form a good basis for an average estimate of longevity or expectation of life.

The table is divided into twelve general classes, and under each class are included the various trades and professions to which each belongs.

It is hoped that the facts here given will be put to some good use in throwing some light upon the comparative healthfulness of different pursuits. If the number and average age of the living among these various classes were known, it would add greatly to the value of these statistics.

In the following subdivisions of the classes, those occupations are selected which have the highest and lowest average age. In these exhibits, care is taken to select such examples only as have cases enough to form some reasonable basis for estimates.

No.	Males.	Av. age.	No.	Females.	Av. age.
180	Retired	81.69	120	Weavers	68.49
53	Spinners	71.50	37	Physicians	57.12
25	Weavers	71.00	102	Nurses	57.51
53	Retired farmers	69.99	2910	Farmers	56.28
24	Basketmakers	68.23	31	Boarding house keepers	55.80
112	Capitalist	65.25	967	Farmers' wives	54.71
17	Surveyors	64.53	13636	Housekeepers	54.29
424	Clergymen	63.67	154	Tailoresses	52.57

No.	Males.	Av. age.	No.	Females.	Av. age.
57	Railroad firemen	21.61	36	Students	22.90
102	Students	23.83	52	Farmers' daughters	26.23
198	Brakemen	28.45	24	Prostitutes	28.31
14	Rivermen	29.50	115	Clerks	29.77
75	Telegraphers	31.85	635	Teachers	31.06
29	Loggers	33.16	425	Dressmakers	34.09
876	Clerks	33.54	26	Musicians	34.21
99	Woodsmen	35.15	20	Hairdressers	34.88
186	Cigarmakers	35.73	21	Artists	36.16
36	Finishers	36.01	13	Bookkeepers	36.12
196	Printers	36.17	174	Milliners	37.40
1454	Miners	37.76	1285	Domestics	37.73

TABLE 99.—*Exhibiting by classified occupations, the number, aggregate, and average age of decedents in Michigan, aged 20 years and over for the 20 years, 1870–1890, one-half year added to age of each for months and years excluded.*

Class.	Occupations—21 years, 1870-1890.	Number of persons.	Age in years and hundredths of a year.	
			Aggregate.	Average.
	All aged 20 years and over	142,289	7,514,638.00	52.81
	All specified occupations—aged 20 years and over	132,453	6,995,739.50	52.82
	Occupations unspecified—aged 20 years and over	9,836	518,898.50	52.76
I.	Cultivators of the earth	35,030	2,093,960.50	59.85
II.	Active mechanics abroad	3,954	211,173.50	53.40
III.	Active mechanics in shops	5,081	259,626.00	51.10
IV.	Inactive mechanics in shops	2,424	127,195.00	52.47
V.	Laborers, no special trades	13,054	581,648.50	44.56
VI.	Agents, laborers abroad, etc.	2,898	127,184.50	43.89
VII.	Seafaring men	920	39,138.00	42.54
VIII.	Soldiers	116	6,596.00	56.86
IX.	Business men	5,739	276,547.00	48.19
X.	Professional men	2,454	125,921.00	51.31
XI.	Unemployed	7,754	433,088.00	55.85
XII.	Females	62,865	3,232,560.00	51.42
I.	Cultivators of the earth	35,030	2,093,960.50	59.85
	Farmers	34,528	2,066,581.50	59.85
	Farm laborers	124	4,610.00	37.18
	Fruitgrowers	16	909.00	56.81
	Gardeners	295	17,423.00	59.06
	Nurserymen	14	737.50	52.67
	Retired farmers	53	3,709.50	69.99
II.	Active mechanics abroad	3,954	211,173.50	53.40
	Brick makers	40	2,195.50	54.88
	Carpenters and builders	2,868	152,262.00	53.09
	House movers	11	610.50	55.50
	Masons	748	39,911.50	53.35
	Millwrights	118	7,526.50	63.78
	Pavers	1	21.50	21.50
	Shipcarpenters	75	4,008.50	53.44
	Stonecutters	93	4,637.50	50.08
III.	Active mechanics in shops	5,081	259,626.00	51.10
	Bakers	142	7,398.50	52.10
	Blacksmiths	903	50,397.50	55.81

TABLE 99.—CONTINUED—*Occupations of decedents, etc.*

Class.	Occupations—21 years, 1870-1890.	Number of persons.	Age in years and hundredths of a year.	
			Aggregate.	Average.
III.	Active mechanics in shops—*Continued.*			
	Boilermakers	41	2,104.00	41.25
	Bookbinders	14	688.00	49.14
	Bottlers	4	114.00	28.50
	Brewers	125	5,923.50	47.38
	Broommakers	12	583.00	48.58
	Cabinetmakers	211	11,292.50	53.51
	Carriagemakers	158	9,020.50	57.09
	Carriagetrimmers	16	743.50	46.47
	Chairmakers	4	171.00	42.75
	Confectioners	24	1,169.00	48.70
	Cooks	80	3,721.50	46.51
	Coopers	448	25,941.00	57.90
	Coppersmiths	11	639.00	58.09
	Dyers	17	838.50	49.32
	Finishers	36	1,296.50	36.01
	Foundrymen	18	811.00	45.05
	Gilders	8	260.00	32.50
	Glassblowers	10	368.00	36.80
	Gunsmiths	53	3,095.50	58.41
	Machinists	340	16,587.50	48.78
	Marble workers	51	2,496.50	48.95
	Mechanics	552	28,079.50	50.86
	Millers	337	18,703.50	55.50
	Modelmakers	21	1,104.50	52.60
	Molders	245	9,571.50	39.06
	Painters	622	27,117.00	43.59
	Plasterers	30	1,575.50	52.51
	Plumbers	48	1,967.50	40.99
	Potters	6	418.00	69.67
	Ropemakers	5	291.50	58.30
	Sailmakers	5	236.00	47.20
	Sawfilers	6	278.00	46.33
	Sawmakers	5	235.00	47.10
	Sawyers	27	1,097.50	40.64
	Smelters	6	247.00	41.16
	Spinners	53	3,790.00	71.50
	Stove mounters	21	768.00	36.57

TABLE 99.—CONTINUED.—*Occupations of decedents, etc.*

Class.	Occupations—21 years, 1870-1890.	Number of persons.	Age in years and hundredths of a year.	
			Aggregate.	Average.
III.	Active mechanics in shops—*Continued.*			
	Tanners	41	2,234.50	54.50
	Tinners	116	4,964.00	42.79
	Turners	31	1,490.50	48.08
	Unclassified	29	1,241.50	42.81
	Upholsterers	24	929.00	38.71
	Wagonmakers	88	5,326.50	60.52
	Weavers	25	1,775.00	71.00
	Wood carvers	12	525.00	43.75
IV.	Inactive mechanics in shops	2,424	127,195.00	52.47
	Barbers	210	8,099.00	38.57
	Basketmakers	24	1,637.50	68.23
	Cigarmakers	186	6,646.50	35.73
	Furriers	2	114.50	57.00
	Harnessmakers	198	9,477.00	47.86
	Hatters	20	1,099.00	54.95
	Jewelers	136	6,769.50	49.77
	Lithographers	7	183.00	26.14
	Printers	196	7,089.50	36.17
	Shoemakers	912	55,385.00	60.72
	Silversmiths	7	396.50	56.64
	Tailors	526	30,298.00	57.60
V.	Laborers—no special trades	13,054	581,648.50	44 56
	Choppers	8	285.00	35.63
	Ditchers	10	621.00	62.10
	Janitors	45	2,605.50	57.90
	Laborers	10,945	499,207.50	45.61
	Loggers	29	961.50	33.16
	Mill hands	185	7,504.50	40.56
	Miners	1,454	54,914.00	37.76
	Miscellaneous	184	8,360.50	45.43
	Porters	20	831.00	41.55
	Rivermen	14	413.00	29.50
	Salt packers	4	222.00	55.50
	Servants	40	1,557.00	38.92
	Well-diggers	17	687.00	40.41
	Woodsmen	99	3,479.00	35.15

TABLE 99.—CONTINUED.—*Occupations of decedents, etc.*

Class.	Occupations—21 years, 1870-1890.	Number of persons.	Age in years and hundredths of a year.	
			Aggregate.	Average.
VI.	Agents, laborers abroad, etc.	2,898	127,184.50	43.90
	Agents	177	8,070.50	45.60
	Baggagemen	29	1,173.00	40.45
	Brakemen	198	5,632.50	28.45
	Butchers	334	15,800.50	47.30
	Collectors	14	668.50	49.18
	Commercial travelers	96	4,284.50	44.63
	Conductors	82	3,155.50	38.45
	Constables	15	711.00	47.40
	Draymen	106	5,575.50	52.60
	Drovers	61	3,068.50	50.30
	Engineers	148	6,508.50	43.96
	Expressmen	13	623.50	47.96
	Firemen	45	1,725.50	38.33
	Hackmen	55	2,450.50	44.55
	Hostlers	26	1,163.50	44.75
	Hunters and trappers	46	2,474.00	53.78
	Indian chief	1	104.50	104.50
	Inspectors of oil, gas, salt, etc.	13	550.00	42.30
	Jockeys	8	357.50	44.68
	Mail carriers	9	478.00	53.11
	Milk peddlers	29	1,644.00	56.69
	Overseers and superintendents	71	3,459.50	48.72
	Peddlers	198	10,187.50	51.45
	Policemen	35	1,426.00	40.74
	Railroad engineers	328	13,409.50	40.88
	Railroad expressmen	12	544.00	45.33
	Railroad firemen	57	1,232.00	21.61
	Railroad laborers	168	7,250.00	43.15
	Railroad men	125	5,273.50	42.19
	Sextons	9	509.50	56.61
	Station agents	9	314.00	34.88
	Switchmen	30	1,005.00	33.50
	Teamsters	288	12,967.50	45.02
	Toll-gate keepers	5	302.50	60.50
	Waiters	10	359.50	35.95
	Watchmen	37	1,983.50	53.60
	Whitewashers	11	721.50	65.59

TABLE 99.—CONTINUED.—*Occupations of decedents, etc.*

Class.	Occupations—21 years, 1870-1890.	Number of persons.	Age in years and hundredths of a year.	
			Aggregate.	Average.
VII.	Seafaring men	920	39,138.00	42.54
	Fishermen	153	7,222.00	47.20
	Officers	72	3,633.50	50.46
	Sailors	690	27,992.00	40.56
	United States navy	5	290.50	58.10
VIII.	Soldiers	116	6,596.00	56.86
	Officers	7	376.50	53.79
	Soldiers	109	6,219.50	57.06
IX.	Business men	5,739	276,547.00	48.19
	Auctioneers	8	464.50	58.06
	Bankers	121	7,164.50	59.21
	Bookkeepers	292	13,108.50	44.89
	Capitalists	112	7,308.00	65.25
	Clerks	876	29,386.50	33.54
	Commission merchants	25	1,440.50	57.62
	Contractors and jobbers	90	5,264.50	58.49
	Furniture dealers	11	534.50	48.59
	Grain buyers	25	1,237.50	49.50
	Grocers	259	12,725.50	49.13
	Hotel clerks	11	452.50	41.13
	Hotel keepers	353	18,576.50	52.62
	Insurance agents	91	4,906.00	53.91
	Justices of the peace	49	2,677.50	54.64
	Liquor dealers	26	1,189.00	45.78
	Livery men	87	3,946.00	45.35
	Lumbermen	561	26,241.50	46.77
	Manufacturers	201	10,556.00	52.51
	Merchants	1,519	80,274.00	52.84
	Mill owners	9	505.50	56.17
	News agents	11	438.50	39.86
	Public officers	158	8,184.50	51.80
	Real estate dealers	107	6,549.00	61.20
	Restaurant keepers	29	1,418.50	48.91
	Salesmen	113	4,833.00	42.77
	Saloon keepers	512	22,541.00	44.02
	Undertakers	26	1,419.00	54.57
	All others	57	3,204.50	56.22

TABLE 99.—CONTINUED.—*Occupations of decedents, etc.*

Class.	Occupations—21 years, 1870-1890.	Number of persons.	Age in years and hundredths of a year.	
			Aggregate.	Average.
X.	Professional men	2,454	125,971.00	51.31
	Actors	13	545.50	41.19
	Architects	15	656.50	43.96
	Artists	40	1,656.00	41.37
	Attorneys-at-law	850	46,912.00	55.74
	Civil engineers	43	2,321.00	54.00
	Clergymen	454	32,206.50	70.97
	Dentists	62	2,794.00	45.06
	Draughtsmen	5	325.00	65.00
	Druggists	172	7,647.00	44.46
	Editors	54	2,484.50	45.93
	Electricians	4	114.00	28.50
	Judges	5	286.00	57.20
	Lecturers	2	100.00	50.00
	Musicians	54	2,371.00	44.93
	Opticians	4	164.50	41.12
	Photographers	32	1,106.00	34.44
	Physicians and surgeons	650	36,697.00	56.41
	Stenographers	4	136.50	34.07
	Students	232	2,631.50	22.68
	Surveyors	17	1,107.00	64.53
	Teachers	253	11,480.50	45.36
	Telegraphers	71	1,846.00	26.00
	Veterinary surgeons	38	1,341.50	35.36
XI.	Clerks [illegible]	[illegible]	[illegible]	[illegible]
	Drapers	[illegible]	[illegible]	[illegible]
	Freemasons	[illegible]	[illegible]	[illegible]
	Retail [illegible]	[illegible]	[illegible]	[illegible]
	Clerks [illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
XII.	Farmers	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	Stockholders	[illegible]	[illegible]	[illegible]

TABLE 99.—CONTINUED.—*Occupations of decedents, etc.*

Class.	Occupations—21 years, 1870-1890.	Number of persons.	Age in years and hundredths of a year.	
			Aggregate.	Average.
XII.	Females.—*Continued.*			
	Boarding house keepers	31	1,730.00	55.80
	Bookkeepers	13	469.50	36.12
	Cigarmakers	6	166.00	27.67
	Clerks	115	3,424.00	29.77
	Confectioners	6	259.00	43.17
	Cooks	46	1,825.50	39.68
	Domestics	1,285	48,488.00	37.73
	Dressmakers	425	14,489.50	34.09
	Druggists	3	154.50	51.50
	Factory employés	9	239.50	26.61
	Farmers	2,910	163,906.00	56.33
	Farmers' daughters	52	1,364.00	26.23
	Farmers' wives	967	52,906.50	54.71
	Hairdressers	20	697.50	34.88
	Hotel keepers	58	2,719.00	46.88
	Housekeepers	13,636	740,277.50	54.29
	Housewives	27,444	1,314,291.50	47.89
	House workers	1,360	63,234.50	46.50
	Laborers	272	13,205.50	48.55
	Laundresses	10	418.00	41.80
	Manufacturers	9	470.50	52.28
	Matrons	98	5,146.50	52.52
	Merchants	64	3,344.00	53.25
	Millers	8	424.00	53.00
	Milliners	174	65,084.00	37.40
	Ministers	5	290.50	58.10
	Miscellaneous	172	8,043.00	46.75
	Musicians	26	889.50	34.21
	Music teachers	3	116.00	38.66
	Nurses	102	5,867.00	57.52
	Paupers	131	7,820.50	59.70
	Physicians	37	2,113.50	57.12
	Prostitutes	24	631.50	26.31
	Saloonkeepers	11	543.00	49.36
	Seamstresses	277	11,177.50	40.35
	Spinsters	11	628.50	57.14
	Stenographers	5	142.00	28.40

TABLE 99.—CONTINUED.—*Occupations of decedents, etc.*

Class.	Occupations—21 years, 1870-1890.	Number of persons.	Age in years and hundredths of a year.	
			Aggregate.	Average.
XII.	Females.—*Continued.*			
	Students	36	824.50	22.90
	Tailoresses	154	8,095.50	52.57
	Teachers	635	19,735.00	31.08
	Telegraphers	9	224.50	24.94
	Unemployed	6,329	364,719.50	57.63
	Unknown	5,209	274,262.50	52.65
	Washerwomen	82	3,762.00	45.88
	Weavers	120	8,219.50	68.49
	Widows	17	1,216.50	71.56

LAWS OF MICHIGAN

CONCERNING THE

REQUIRING OF A CIVIL LICENSE TO MARRY,

THE SOLEMNIZATION OF MARRIAGES, AND THE RECORD, RETURN, AND COMPILATION OF BIRTHS, MARRIAGES, AND DEATHS; WITH SUGGESTIONS TO PERSONS AUTHORIZED TO SOLEMNIZE MARRIAGES.

CHAPTER 236, HOWELL'S ANNOTATED STATUTES, 1882.

MARRIAGE AND THE SOLEMNIZATION THEREOF.

SECTION.		SECTION.	
6209.	Who shall be capable of contracting Marriage.	6215.	Marriage, by whom solemnized.
6210.	Marriage is a civil contract.	6217.	No particular form required.
6211.	Who shall not intermarry.	6220.	Marriages not void in certain cases.
6212. 6213. 6214.	Who not to marry.	6221.	Marriages among Quakers, etc.

Chapter eighty-three of Revised Statutes or 1846, with amendments.[a]

(6209.) SECTION 1. Every male who shall have attained the full age of eighteen years, and every female who shall have attained the full age of sixteen years, shall be capable in law of contracting marriage, if otherwise competent.

(6210.) SEC. 2. Marriage, as far as its validity in law is concerned, is a civil contract to which the consent of parties capable in law of contracting is essential.

(6211.) SEC. 3. No man shall marry his mother, grandmother, daughter grandaughter, stepmother, grandfather's wife, son's wife, grandson's wife

[a] For prior Statutes relative to the solemnization of marriages, see Woodward Code, p. 42; Cass Code, p. 111; Code of 1820, p. 259; Rev. of 1827, p. 280; Laws of 1832, p. 6; Rev. of 1838, p. 329; R. S. of 1838, p. 333.

wife's mother, wife's grandmother, wife's daughter, wife's granddaughter, nor his sister, brother's daughter, sister's daughter, father's sister, or mother's sister.

(6212.) SEC. 4. No woman shall marry her father, grandfather, son, grandson, stepfather, grandmother's husband, daughter's husband, granddaughter's husband, husband's father, husband's grandfather, husband's son, husband's grandson, nor her brother, brother's son, sister's son, father's brother, or mother's brother.

(6213.) SEC. 5. No marriage shall be contracted whilst either of the parties has a former wife or husband living, unless the marriage with such former wife or husband shall have been dissolved.[b]

(6214.) SEC. 6. No insane person or idiot shall be capable of contracting marriage. All marriages heretofore contracted between white persons and those wholly or in part of African descent are hereby declared valid and effectual in law for all purposes, and the issue of such marriages shall be deemed and taken legitimate as to such issue, and as to both of the parents.

(6215.) SEC. 7. Marriages may be solemnized by any justice of the peace in the county in which he was chosen, and they may be solemnized throughout the State by any minister of the gospel who has been ordained according to the usages of his denomination, and who is a pastor of any church or churches in this State, or who shall continue to preach the gospel in this State: (*Provided.*)*

(6216.) SEC. 8.*

(6217.) SEC. 9. In the solemnization of marriage, no particular form shall be required, except that the parties shall solemnly declare, in the presence of the magistrate or minister and the attending witnesses, that they take each other as husband and wife; and in every case there shall be at least two witnesses, besides the minister or magistrate, present at the ceremony.

SEC. 10.† SEC. 11.† SEC. 12.† SEC. 13.† SEC. 14.*

(6220.) SEC. 16. No marriage solemnized before any person professing to be a justice of the peace or a minister of the gospel, shall be deemed or adjudged to be void, nor shall the validity thereof be in any way affected on account of any want of jurisdiction or authority in such supposed justice or minister: *Provided*, The marriage be consummated with a full belief on the part of the persons so married, or either of them, that they have been lawfully joined in marriage.

(6221.) SEC. 17. The preceding provisions of this chapter, so far as they relate to the manner of solemnizing marriages, shall not affect marriages among the people called Friends or Quakers; nor marriages among people of any other particular denomination having, as such, any peculiar mode of solemnizing marriages; but such marriages may be solemnized in the manner heretofore used and practiced in their respective societies or denominations.

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b Act 137, Laws of 1887, prohibits divorced persons from re-marrying for a period specified in the decree, not to exceed two years.

* Repealed by Act 128, Laws of 1887.

† Repealed by Act 194, Laws of 1867, p. 266, Sec. 10.

ACT NO. 128, LAWS OF 1887.

FOR THE REQUIRING OF A CIVIL LICENSE IN ORDER TO MARRY, AND THE DUE REGISTRATION OF THE SAME, AND TO PROVIDE A PENALTY FOR THE VIOLATION OF THE PROVISIONS OF THE SAME.[a]

SECTION 1. *The People of the State of Michigan enact.* It shall be necessary for all parties, intending to be married, to obtain a marriage license from the county clerk of the county in which either the man or the woman resides, and to deliver the said license to the clergyman or magistrate who is to officiate, before the marriage can be performed.*

Persons intending marriage must obtain license from county clerk.

SEC. 2. Blank forms for marriage licence and certificate, as also proper books of registration ruled for the items contained in said forms, shall be prepared by the Secretary of State, and shall be furnished by him to the county clerk of the various counties of the State in quantities needed. The blank forms for license and certificate shall be made in duplicate and shall provide spaces for the entry of the following items, to wit: The full name, age, color, place of residence, place of birth, occupation, and if known, the father's name, and mother's maiden name, of each of the parties to be married; the number of times either of the parties may have been previously married; the bride's maiden name, in case she is a widow; the date of the giving of the license; the signature of the county clerk; the date and place of the marriage, the names and residences of two witnesses to the marriage, and the certification of the officiating clergyman or magistrate, that the marriage contemplated by the license has been performed by him. And the Secretary of State shall furnish to the county clerks of the various counties of the State, blank forms of affidavit, containing the requisite allegations, under the laws of this State, of the competency of the parties to unite in the bonds of matrimony, and any party applying for license to marry, shall cause such an affidavit to be made and filed with the county clerk, as a basis for the issuing of the license, and such affidavit, together with the license, shall be made a matter of record of said clerk's office.

Secretary of State to furnish forms, blanks, etc.

Form of license.

Secretary of State to furnish to county clerks blank forms of affidavits, etc.

SEC. 3. It shall be the duty of the county clerk, on application being made to him, to fill out the blank spaces of the license according to the sworn answer of the applicant

Duty of county clerk.

[a] This act went into effect Sept. 21, 1887.

* Amended by Act No. [illegible] which see on the following page for amended provisions.

taken before him or some person duly authorized by law to administer oaths. If it shall appear that the parties are legally entitled to be married, the county clerk shall sign the license in certification of the fact that it is properly issued, and he shall make a correct copy thereof in the books of registration. For his services connected therewith he shall be entitled to a fee of fifty cents, to be paid by the party applying and at the time of the issuing of the license. He shall give the license, thus filled out and signed by him, together with the blank form of certificate, to the party applying for delivery to the clergyman or magistrate who is to officiate at the marriage. On the return of the license to the county clerk (as specified in section four, below), with the certificate of the clergyman, or magistrate, that the marriage has been performed, he shall record in the book of registration, in their proper places of entry, the date and place of the marriage, the names and residences of two witnesses to the marriage, and the name of the officiating clergyman or magistrate. All licenses and certificates so issued and returned shall be preserved on file in the office of the county clerk, and he shall, as often as once in three months, make a faithful report to the Secretary of State of all licenses and certificates issued and received by him.

Fees.

Licenses and certificates, where filed, etc.

Duty of officiating clergyman or magistrate.

SEC. 4. It shall be the duty of the clergyman or magistrate, officiating at a marriage to fill out the spaces of the certificate left blank for the entry of the time and place of the marriage, the names and residences of two witnesses, and his own signature in certification that the marriage has been performed by him. He shall separate the duplicate license and certificate and retain one-half for his own record, and he shall return the other half within ten days to the county clerk issuing the same.

Penalty for violating act by county clerk.

SEC. 5. Any county clerk who shall refuse to give a license to persons properly applying and legally entitled to be married, or who shall violate any of the provisions of this act, shall be adjudged guilty of a misdemeanor, and shall be punished by a fine of not less than twenty-five dollars or more than one hundred dollars, or in default of payment thereof by imprisonment in the county jail for a term of thirty days.

Penalty for violation, by clergyman, etc.

SEC. 6. Any clergyman or magistrate who shall join together in marriage parties who have not delivered to him a properly issued license, as provided for in this act, or who shall violate any of the provisions of this act, shall be adjudged guilty of a misdemeanor, and shall be punished by a fine of one hundred dollars, or, in default of payment thereof, by imprisonment in the county jail for a term of ninety days.

Penalty for neglect to return certificate.

SEC. 7. Any person whose duty it shall be to return a marriage certificate to the county clerk, who shall neglect to return said certificate, shall be adjudged guilty of a misdemeanor, and shall be punishsd by a fine of not exceeding one hundred dollars or ninety days' imprisonment, or both in the discretion of the court.

SEC. 8. Any person applying for a marriage license who shall swear to a false statement therein, shall be guilty of perjury and shall be prosecuted therefor under the general laws of the State. False swearing in application, perjury.

SEC. 9. All reports of marriage, sent by the county clerks of the various counties of the State to the office of the Secretary of State, shall be preserved on file in that office, and a proper record thereof shall be made and kept. Filing and recording of reports.

SEC. 10. The record of any license to marry, or of any marriage certificate in any county clerk's office, or a certified copy thereof, shall be *prima facie* evidence in any court or proceedings in this State, with the same force and effect as if the original were produced, both as to the facts therein contained and as to the genuineness of the signatures thereto. Records of license, etc., *prima facie* evidenc.

SEC. 11. All other acts and parts of acts which are inconsistent herewith are hereby repealed. Acts repealed.

ACT NO. 256 LAWS OF 1889.

AN ACT to amend section one of act number one hundred and twenty-eight, of the laws of eighteen hundred and eighty-seven, being an act entitled "An act for the requiring of a civil license in order to marry, and the due registration of the same, and to provide a penalty for the violation of the provisions of the same," and to extend the provisions of said act to non-residents of this State.

Section amended.

SECTION 1. *The People of the State of Michigan enact.* That section one of act number one hundred and twenty-eight of the session laws of eighteen hundred and eighty-seven, being an act entitled, "An act for the requiring of a civil license in order to marry, and the due registration of the same, and to provide a penalty for the violation of the provisions of the same," approved May thirty-first, eighteen hundred and eighty-seven, be and the same is hereby amended so as to read as follows:

Persons intending marriage must obtain license.

SECTION 1. *The People of the State of Michigan enact,* It shall be necessary for all parties intending to be married to obtain a marriage license from the county clerk of the county in which either the man or woman resides, and to deliver the said license to the clergyman or magistrate who is to officiate, before the marriage can be performed. If both parties to be married are non-residents of the State it shall be necessary to obtain such license from the county clerk of the county in which the marriage is to be performed.

Where non-residents must obtain license.

This act is ordered to take immediate effect.

Approved July 3, 1889.

CHAPTER 23, HOWELL'S ANNOTATED STATUTES, 1882.

AN ACT TO PROVIDE FOR THE REGISTRATION OF BIRTHS, MARRIAGES AND DEATHS, BEING ACT NO. 194 OF 1867, AS AMENDED BY ACT NO. 125, OF 1869.[a]

(858.) SECTION 1. *The People of the State of Michigan enact*, That it shall be the duty of the supervisor of each township, and the supervisor or assessor of any city or ward therein, in this State, between the tenth day of April and the first day of June, in the year eighteen hundred and sixty-nine, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, from and including April fifth, eighteen hundred and sixty-eight, to and including December thirty-first, eighteen hundred and sixty-eight, together with the facts relative thereto, as are hereinafter provided for, and shall make an accurate return thereof to the clerk of the county in which such township or city is situated, on or before the first said day of June; and for such service shall receive ten cents for each birth and death so returned by them to be paid by the county in which such returns are made. In the year eighteen hundred and seventy, and in each and every year thereafter, it shall be the duty of the officers above mentioned, between the tenth day of April and the first day of June, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, during the year ending on the last day of the preceding December, and shall make the return and receive therefor the compensation above provided for: *Provided* That in the city of Detroit, the duties required by this act to be performed by supervisors and assessors shall be performed by persons appointed by the common council, for that purpose; and it shall be the duty of the common council on or before the tenth day of April, in each year, to appoint such number of persons in each ward of said city as shall be necessary to perform said duties within the time limited by this act; and such persons shall possess all the authority conferred upon, and perform all the duties required of supervisors and assessors by this act, within the territory assigned them, respectively by the common council, and shall receive such compensation for their services, not exceeding the sum allowed by this act to supervisors and assessors, as shall be

Duties of supervisors and assessors.

In 1869 returns to be made from April 5 to Dec. 31, 1868.

Return to county clerk.

In 1870 and thereafter.

Returns to include from January to December last preceding.

Statistics, how obtained.

Compensation.

Proviso relative to the city of Detroit.

Duty of common council.

Persons to be appointed by.

Compensation of persons so appointed.

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[a] See Act No. 128, Laws of 1887, printed herewith, for registration of marriages.

How paid.

Penalties.

fixed by the common council, to be paid by the county of Wayne, and shall be liable to the same penalties for refusal or neglect to perform any of said duties.

Marriages to be recorded.

(859.) SEC. 2. Every justice of the peace, minister of the gospel, and all other persons authorized by law to solemnize marriages in this State, shall make a record of each marriage so solemnized by him, and every clerk or keeper of the records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, shall make a record of such marriage, together with all the facts relating to the same, as required by the third section of this act; and such justice, minister of the gospel, clerk, or other person, shall, at the time such marriage is solemnized, deliver, on demand, to either of the parties so joined in marriage, as aforesaid, a certificate of such marriage, containing all the facts in relation thereto, required by said third section of this act, and shall, within ninety days thereafter, deliver to the clerk of the county in which such marriage took place, a certified copy of such record, and, at the same time, pay to the clerk twenty-five cents for recording the same.[a]

Marriage of Quakers.

Certificates to be furnished.

Fee for recording.

County clerks; duties of.

(860.) SEC. 3. It shall be the duty of the county clerks of the several counties of this State, on receiving the returns of such births, marriages, and deaths, to record the same at length in separate books, to be provided at the expense of the State by the Secretary of State, for that purpose, with proper indexes thereto. The births, marriages, and deaths shall be numbered and recorded in the order in which they are received by the clerk, and the record of marriages shall be indexed, using both the name of the bridegroom and bride. The record of birth shall state, in separate columns, the date of the birth, the name of the child (if it have any), the sex and color of the child, the place of birth, the christian and surname of both parents, the residence and nativity of the parents, the occupation of the father, and the date when the record was made: *Provided*, That in case the child has no christian name, such name shall be obtained and reported to the county clerk in the next annual report of the supervisor or assessor, and such christian name shall be distinctly designated in such report as the christian name belonging to a child previously reported, and shall be properly entered by said county clerk, in the blank left for such christian name in his book of record; and it shall be the duty of the several county clerks, on or before the tenth day of April in each year, to give to the officers required to make the said returns, lists of such children whose christian names have not been previously reported in their respective towns, cities or wards. The record of marriages shall state, in separate columns, the date and place of marriage, the christian and surname of the bridegroom and bride, and the maiden name of the bride, if a widow, the color, age, and place of

Births, marriages and deaths to be numbered and indexed.

Record of births shall state.

Proviso.

Record of marriages shall state.

[a] The provisions of this section are undoubtedly repealed by Act 125, Laws of 1887, except so far as relates to the delivering of a certificate to either of the parties joined in a marriage.

birth of each, the residence of each at the time of marriage, the occupation of the bridegroom, and the name and official station of the person by or before whom they were married, the names and residences of at least two witnesses present at such marriage, and the date when such record was made.* The record of deaths shall state in separate columns, the date of the death, the christian and surname of the deceased, the sex and color, whether married or single, the age in years, months, and days, the place of death, the disease or apparent cause of death, the nativity of the deceased, and the occupation, if any, and the names, residence of the parents, if known, and the date when such record was made. The clerks of the several counties shall annually, on or before the first day of September make and transmit to the Secretary of State, a certified copy of the records of his office, of all the births, marriages,* and deaths reported in their respective counties for the year ending December thirty-first, last preceding. And each county clerk shall receive for the record of each birth and death in his office three cents, and three cents for each birth, marriage, and death, returned by him to the Secretary of State, to be paid by the county, and shall be compensation in full for all services required by this act to be performed by him.

Record of deaths shall state.

Return of county clerk.

Compensation.

(861.) SEC. 4. The Secretary of State shall prepare and furnish to the county clerks of the several counties in this State, blank books of suitable quality and size, with proper rulings and headings, to be used as books of records, in carrying into effect the provisions of this act. He shall also prepare and furnish blank "forms of returns," as hereinbefore specified accompanied with such instructions and explanations as may be necessary to insure uniformity in such returns, which blanks shall be forwarded to the several county clerks on or before the first day of March in each year; and the said county clerks shall deliver the same to the supervisors or assessors of the several townships, cities or wards therein, in their respectivie counties, on or before the tenth day of April.

Secretary of State shall furnish all blank books, blanks, instructions, etc.

(862.) SEC. 5. It shall be the duty of the Secretary of State to receive the returns made in pursuance of the third section of this act, and he shall cause the same for each year to be bound together, in one or more volumes, at the expense of the State, and make indexes thereto; and with such assistance as may be voluntarily rendered by any authorized committee appointed by the medical faculty of the University of Michigan or by any regularly authorized medical society in this State, for that purpose, he shall prepare such tabular statements, results, and deductions therefrom as will render them of practical utility, and make report thereof, annually, to the Governor of the State, which report may be ordered published and distributed in such manner as the Legislature may from time to time direct.

Returns to be bound and indexed.

Secretary of State to make annual report.

*Amended by Act 128, Laws of 1887, which see on previous pages for amended provisions.

Neglect to keep records.

(863.) SEC. 6. Every justice of the peace, minister of the gospel, and all other persons authorized by the laws of this State to solemnize marriages, and clerks or keepers of records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, who shall neglect or refuse to make a record of such marriage, or to deliver to the county clerk of the county in which the marriage took place, a certified copy of such record, or who shall refuse, on demand, to deliver to the parties to such marriage the certificate thereof, as required by section two of this act, or who shall willfully make a false or fictitious entry in his record of marriages or in the certified copy of such record delivered to the county clerk, or in the certificates of marriages, delivered to the parties thereto, shall be deemed guilty of a misdemeanor, and upon conviction thereof, shall be punished by fine not exceeding one hundred dollars, and in default of paying the same, shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not to exceed the period of ninety days.*

Neglect to deliver certificates.

Penalty.

Certificate of death.

(864.) SEC. 7. Every physician, surgeon, or midwife, who shall have been in attendance upon any deceased person, shall, upon application of any supervisor or assessor of the township, city, or any ward thereof, in which such death occurred, make out and deliver to such supervisor or assessor a certified statement, without fee, containing the name of the disease, or cause (if known), producing the death of such person; and any medical attendant who shall neglect or refuse to give such statement, or who shall willfully make a false statement in relation to such death, shall for such offense be liable to pay a fine of not less than ten nor more than fifty dollars, and the costs of prosecution, which fine the said supervisor or assessor is hereby required to sue for and collect, in his official character.

Refusal to make certificate.

Penalty.

Facts to be obtained by supervisor.

(865.) SEC. 8. It shall be the duty of each supervisor or assessor to obtain the facts in relation to births and deaths within his township, city, or any ward therein (not otherwise obtained), from the heads of families, the keepers, overseers, or superintendents of asylums, hospitals, jails, prisons, workhouses, almshouses, houses of correction and similar institutions, the keepers of hotels, public and private boarding houses, and the masters or chief officers of steamboats and sail vessels, navigating any of the waters of this State, and touching at any port of entry therein, in which such births or deaths occurred; and if either of the above named persons shall refuse to give such information, then the same shall be obtained by such supervisor or assessor from any person having a knowledge of the facts in relation to such birth or death; and if the supervisor or assessor shall have reason to believe that any person or persons willfully misrepresented or concealed any facts relative to such birth or death in his township, city, or any ward therein, which he cannot otherwise obtain, he may examine such person or persons on oath (which oath such supervisor or assessor is

Refusal to furnish.

Obtained under oath.

*The provisions of this section are undoubtedly repealed by Act 128, Laws of 1887, except so far as relates to the penalty for refusing to deliver to the parties to a marriage a certificate thereof.

hereby empowered and authorized to administer), in relation to any birth or death within his township, city, or any ward therein, of which such person or persons may have any knowledge or information; and if any person, after being duly subpœnaed (as provided for compelling the attendance of witnesses in justices' courts), by such supervisor or assessor, for the purpose aforesaid, shall neglect or refuse to appear before such officer, or, appearing, shall refuse to be sworn and testify in relation to such matter, he shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished therefor by a fine not exceeding fifty dollars, and in default of paying the same shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not exceeding ninety days; and any person who after being duly sworn as aforesaid, shall willfully make any false statement in relation to any birth or death, about which he is required to testify, shall be deemed guilty of willful and corrupt perjury: *Provided*, That no person shall be required to answer any question which will tend to criminate himself or herself upon any such examination.

Neglecting to answer a subpœna.

Penalty.

Perjury.

Proviso.

(866.) SEC. 9. In case of the refusal or neglect by any of the officers mentioned in this act, to perform any of the duties hereinbefore required of them or either of them, to be done and performed by any of the provisions herein contained, such officer shall be liable to a fine not to exceed one hundred dollars, and the costs of prosecution; and the prosecuting attorney in each county is hereby required to prosecute, in the name of the people of the State of Michigan, all persons in his county who shall willfully violate any of the provisions of this act; and the said supervisor or assessor of any township, city, or any ward therein, may be prosecuted for a misdemeanor under the section, and upon conviction, punished as therein provided for.

Neglect to perform duties.

Penalty

Misdemeanor.

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